

Hall, E.A.

# Howland & Lowell

will offer, this year, the best line of

## HOLIDAY GOODS

ever received by them.

Will also always have everything found in a first-class

### APOTHECARY STORE.

PRESCRIPTIONS carefully compounded day or night. Night bell left hand side front door.

Fine Line of Artists' Materials.

New Goods received weekly in this line.

CHAS. R. LOWELL,

**5 Bank Row, - - - - - GREENFIELD, MASS.**

# Sheldon & Newcomb,

**GREENFIELD, MASS.,**

DEALERS IN

# HARDWARE, IRON,

Agricultural Implements, Seeds,

Paint and Whitewash Brushes, Paints, Oils, and Varnishes,

Blacksmiths' Supplies, Wooden Ware, Lard, Sperm and Lubricating Oils, Plow Castings, Zinc, Sheet Lead, Carpenters' Tools, Horse Rakes, Haying Tools, Mower Sections, Plows, Horse Hoes, Brooms, Cable and Stake Chains, Cow Ties, Steel Straps, Washing Machines, Wringers, Baskets, Wire Cloth, Step Ladders, Nails, Ox Muzzles, Feed Baskets, Linen and Wool

Pumps, Iron Sinks, Faucets, Solder, Babbitt

Metal, Glass, Putty, Meat Barrels,

Casks, Door Mats, Pails, Wheels and Wheel Stock, House Furnishing Goods, Wooden Bowls, Butter Moulds, Dairy Thermometers, Churns, Butter Workers, Tubs, Tar, Glue, Wheel Grease, Rubber Packing, Belting, Oakum, Scales, Rope, Twines, Powder,

Fuse, Cartridges, Bullard & Mudgett Tedders,

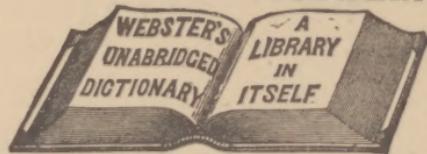
Granite State Mowers, Randall

Wheel Harrows, &c.

Bradley's and Cleveland's Superphosphates.

# WEBSTER'S UNABRIDGED

With or without Patent Index.



It has 3000 more Words than any other Am. Dict'y, and nearly 3 times the number of Engravings. "It is an ever-present and reliable School-master to the whole family."

A DICTIONARY,  
118,000 Words, 3000 Engravings.

A GAZETTEER OF THE WORLD,  
25,000 Titles, (recently added) and

A BIOGRAPHICAL DICTIONARY,  
nearly 10,000 Noted Persons,  
ALL IN ONE BOOK.

Webster is Standard Authority in the Government Printing Office, and with the U. S. Supreme Court, and is recommended by State Sup'ts of Schools in 36 States.

Published by G. & C. MERRIAM & CO., Springfield, Mass.

## L. Nims,

LIVERY, SALE AND BOARDING STABLE,

OPPOSITE MANSION HOUSE, GREENFIELD, MASS.

First-class Hacks, with careful drivers, at all hours. Village Coach to all trains.

## C. P. Allen,

DENTIST,

104 Main Street, - - - - - GREENFIELD, MASS.

## C. M. Moody,

BOOKSELLER AND STATIONER,

FANCY GOODS FOR THE HOLIDAYS A SPECIALTY.

A very large assortment of Christmas and New Year's Cards.

Sanborn's Block,

GREENFIELD, MASS.

# Allen & Gerrett,

Livery, Feed, Boarding and Sale Stable.

Hacks, with careful drivers, at all hours. Boarding horses a specialty.

## Standard Coupe.

25 cts. per seat between 8 a. m. and 10 p. m. within these limits: North to Pond St.; South to Russell St.; East to Orchard St.; West to Newton Bridge. Weddings and parties, \$2. Riding, \$1 per hour, 50 cts. second hour. COUPE STAND in front of SANBORN BLOCK. Connected by telephone.

## GREENFIELD, MASS.

N. D. ALLEN.

FRANK GERRETT.

# Richard O'Hara,

DEALER IN

BOOTS, SHOES, RUBBERS, &C.

DAILY, WEEKLY AND MONTHLY PUBLICATIONS.

CIGARS, TOBACCO, &c., &c.

Pond's New Block, first door south of Gazette Office, GREENFIELD, MASS

# Arthur N. Hull,

All Kinds of WOOD  
and



Direct from Mines, via  
Hoosac Tunnel.

47 Main Street,

GREENFIELD, MASS.

# J. E. Lamb,

FLOUR, GRAIN, FEED, HAY.

Salt, Lime, Cement, Groceries.

 Everything at Lowest Prices.

Davis Street, - - - - - GREENFIELD, MASS.

# Joseph Beals & Frank D. Beals, DENTISTS,

**Mansion House Block, - - - GREENFIELD, MASS.**

 All operations performed in the most thorough and careful manner.

---

## S. D. Roudenbush,

PRACTICAL CABINET MAKER.

Furniture of all kinds neatly and thoroughly repaired and finished.

Stretchers, Easels, Mats and Screens made.

Upholstering, Picture Framing, Trunk Repairing, &c.

Window Screens and Doors made to order.

**Shop in rear of Sanborn's Block, - - - GREENFIELD, MASS.**

---

## Furniture Store.

Parlor Suits, Odd Pieces, Student Chairs, Patent Rockers, &c. Chamber Furniture, Walnut, Ash and Painted Chamber Sets, Lounges, Mattresses, and Spring Beds, Cots, &c.

### UNDERTAKING ROOMS.

Cloth Covered Caskets; Walnut, Oak and Rosewood Caskets; Coffins, Robes, Habits, Plates and Trimmings, from medium to the finest goods. The celebrated Stein Work always on hand. Full charge taken if desired. No ice used.

### UPHOLSTERY WAREROOMS.

Long Curtains, Lambrequins, Draperies and Mantles to order. Cornices, Cornice Poles, and Rings, Fringes, Gimpes, Cords, Tassels, &c. Old work made over. Ordered work a specialty.

### ALEX. W. GREEN,

**Arms' Building, Main and Chapman Sts., - - - GREENFIELD.**

---

## A. G. Miner,

DEALER IN

WINDOW BLINDS AND DOORS,

Window Glass, Paints, Oils, Varnishes, Brushes, Window Shades, Fixtures, Cords, Tassels, and Ornaments.

Paper Hangings and Borders.

Full line of best Carpet Sweepers made.

House Painting and Paper Hanging done to order.

**Main Street, - - - - - GREENFIELD, MASS.**

# C. S. Barrett,

Successor to FOSTER & BARRETT,

DEALER IN

## READY-MADE CLOTHING,

Gents' Furnishing Goods, Hats, Caps, Robes, &c.

A Full Stock and Prices Low.

**Pond's Block, - - - - - GREENFIELD, MASS.**

---

# T. N. Austin & Co.,

DEALERS IN

## LUMBER OF ALL KINDS,

WINDOWS, BLINDS, DOORS, GLASS, ALL KINDS OF PAINT,  
Pure Lead, Raw and Boiled Oil, Dry Colors, Colors in Oil,  
Colors in Japan, Varnishes, Japan, Hard Oil Finish,  
Putty, Best Brands of Mixed Paints.

HOUSE PAINTING, PAPER HANGING, KALSMINING, &c., &c.,  
by experienced workmen.

Building Paper, Patent Roofing, Shingles, Clapboards, Mouldings, Brackets.  
All kinds of Stair Work, Wood Turning, Jig Sawing,  
and Lumber worked to order.

OFFICE, MILL, SHOPS, AND LUMBER YARD,

**Hope Street, - - - - - GREENFIELD, MASS.**

---

# The Davis Street Bakery,

C. O. GRAVES & CO.,

**Rear of American House, Greenfield,**

Where the celebrated D. W. C. XX BUTTER CRACKERS are baked.  
Also, Large, Common, Extra, Milk and New York Oyster Crackers.

Fine Wheat, Brown, Vienna, Graham and Rye Breads, of our own make,  
constantly on hand.

Sugar and Ginger Cookies, Jumbles, Vanilla Creams and Fancy Goods  
and Cake of all kinds.

All orders will receive prompt attention. Connected by telephone.

# John Kennedy, CUSTOM TAILOR,

Respectfully announces to his friends and the public generally that he has in stock at all times, adapted to the season, a good assortment of CLOTHS, VESTINGS, AND TRIMMINGS,

which he will be happy to make into Custom Garments, warranted to fit, at prices to suit the times.

REPAIRING and cleansing done in a workmanlike manner.

**Pond's Block, - - - - - GREENFIELD, MASS.**

## H. L. Miller,



**Federal Street, - - - - - GREENFIELD, MASS.**

## W. W. Partenheimer,

DEALER IN

Flour, Groceries, Provisions and Vegetables.

FOREIGN and DOMESTIC FRUITS, Wholesale and Retail.

CALIFORNIA FRUITS a Specialty.

OYSTERS and LOBSTERS in their season.

BANANAS a Specialty.

ALL FRUITS at Wholesale.

Hovey's Colonnade Block,

**No. 82 Main Street, - - - - - GREENFIELD, MASS.**

ESTABLISHED 1844.

## Hollister's Jewelry Store, GREENFIELD, MASS.,

Is a good place to buy any article in his line. Particular attention paid to Repairing Watches, Clocks, and Jewelry.

## Ladies' Hair Goods Bazar. SWITCHES, WIGS,

And Water Curly Hair in all styles. Orders taken for Watch Chains and Holiday Gifts. Hairdressing for balls, weddings and parties. Combs made into Switches. First quality Natural Gray Hair only made to order.

A. W. EICHLER, 1 Pond's Block.

## Ætna Insurance Co.

INCORPORATED 1819. CHARTER PERPETUAL.

Losses paid in 68 years.....	\$60,180,000
Total income for 1886.....	3,034,161 70
Total expenditures (including dividends, \$720,000).....	2,905,275 65
Premiums received from organization of company.....	101,115,792 00
January 1, 1887.	
Cash capital.....	\$4,000,000 00
Reserve, reinsurance, (fire).....	1,797,495 06
"    "    (inland).....	10,692 15
"    "    (unpaid losses, (fire).....	206,153 50
"    "    "    (inland).....	44,844 82
Other claims.....	59,432 66
Net surplus.....	3,450,221 37
Total assets.....	\$9,568,839 56

SAMUEL J. LYONS, Agent,  
GREENFIELD, MASS.

## Charles N. Reed,

DEALER IN

CHOICE FAMILY GROCERIES,  
Oysters and Lobsters.

FRUITS AND VEGETABLES IN THEIR SEASON A SPECIALTY.

Butter Consignments received every week.

Federal Street, - - - - - GREENFIELD.

# **W. A. Forbes**

Keeps at all times a full stock of

**DRY GOODS AND CARPETS.**

Also, a fine assortment of Ladies', Misses' and Children's

Cloaks and Shawls.

Buying all my goods for prompt cash, and with small expenses, enables  
me to sell the best of goods

AS LOW AS THEY ARE SOLD ANYWHERE IN THE STATE.

**W. A. FORBES,**

**GREENFIELD, MASS.**

---

# **W. C. Bryant,**

**MERCHANT TAILOR,**

ROOMS OVER HOLLISTER'S AND S. B. PAYNE'S STORES,

**GREENFIELD, MASS.**

---

Only the Best and Latest Styles of Cloths and  
Samples kept.

MAKE, TRIMMINGS, STYLE AND FIT THE BEST.

PRICES AS LOW AS CAN BE AND BE HONEST.

# Chas. N. Payne,

## DRUGS AND MEDICINES,

Toilet Articles and Fancy Goods in Great Variety.



I have added to my stock of Fancy Articles for the Holiday Trade the largest assortment of Plush and Leather Sets ever shown in Greenfield, and prices are very much lower than last year.

I have a beautiful line of Leather Articles, consisting of Gentlemen's Sets, Collar and Cuff, Cigar, Card, and Drinking Cases; Whisk Broom Holders, in brass, of all prices and designs; also a large variety of Manicure Sets, Fancy Cut Bottles, Extracts, Colognes, and a host of other things too numerous to mention.

CHAS. N. PAYNE'S PHARMACY,

**Pond's Block, - - - - - GREENFIELD, MASS.**

## D. B. Kellogg,

DEALER IN

## CHOICE FAMILY GROCERIES.

Best Haxall and St. Louis Flour.

AGENT FOR VALVE OLEUM OIL FOR MOWING MACHINES. It has no equal for Wagon and Carriage Axeltrees. It is superior to Castor Oil, wearing longer, and will flow from oil cup in cold weather, and never gums.

KELLOGG'S BAKING POWDER,

Guaranteed Strictly Pure.

# Ferguson & Logan,

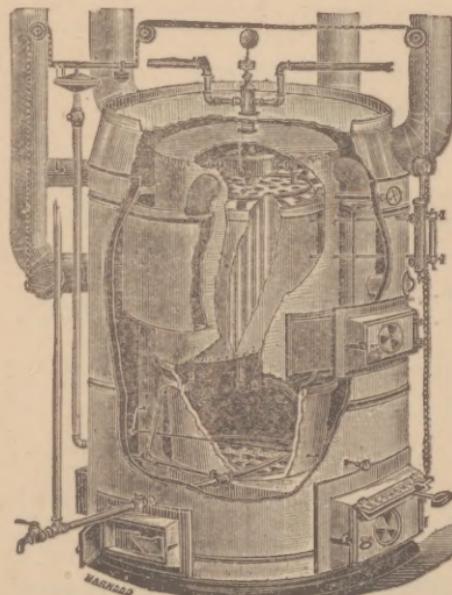
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DRY GOODS, FANCY GOODS,  
AND NOTIONS.

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Taylor Block,

GREENFIELD, MASS.



R. P. Whipple,  
PLUMBER,

STEAM AND GAS FITTER,  
AND DEALER IN  
STOVES, FURNACES,  
STEAM FURNACES AND STEAM  
BOILERS,

Lead and Iron Water Pipe, Gas  
Fixtures, and all goods pertaining  
to the Stove and Plumbing  
Business.

Special Agent for the Victor,  
Swampscott, Brown and Exeter  
Boilers for Heating Dwellings  
and Blocks.

Also, Agent for the best Wrought and Cast Iron Furnaces made.

Estimates for all kinds of Plumbing and Heating Arrangements cheer-  
fully furnished.

Largest stock of Drain Tile in the County.

Wiley's Block, Main Street,

GREENFIELD.

ILLUSTRATED CATALOGUE SENT FREE

# ESTEY ORGAN

FULLY WARRANTED

UNRIVALLED IN TONE  
ELEGANT IN FINISH  
REASONABLE IN PRICE



## ESTEY ORGAN CO.

BRATTLEBORO,  
VERMONT  
159 TREMONT ST. BOSTON.

GO TO

## O. A. Blaisdell's

FOR YOUR

## HOME-MADE CANDIES.

Regular Dinners a Specialty.

OYSTERS served in every style.

WEDDINGS and PARTIES supplied with every requisite.

ICE CREAM at Wholesale and Retail.

145 to 149 Main Street,

GREENFIELD.

# Dr. J. C. Ayer's Medicines.

## PERFECT SATISFACTION

Is the verdict of every one using **Ayer's Cherry Pectoral** for Colds, Coughs, Bronchitis, Pneumonia, and all Lung troubles. Unlike cod-liver oil, and many other specifics, Ayer's Cherry Pectoral is agreeable to the taste, and leaves no ill effects.

"I cannot say too much in favor of Ayer's Cherry Pectoral," writes Mr. Robert F. McKeen of New Century, N. J. "I have used it in my family for many years, and always with perfect satisfaction."

"Ayer's Cherry Pectoral is truly the *most popular remedy* of the age, rendering full satisfaction in every instance."—THORNTON EDWARDS, Lonely Dale, Ind.

F. L. Morris, M. D., Brooklyn, N. Y., says: "Your medicines have been satisfactory to me throughout my practice, especially Ayer's Cherry Pectoral, which has been used in great quantities by my patients. One of them says he knows it saved his life."

### Ayer's Cherry Pectoral,

Prepared by Dr. J. C. Ayer & Co., Lowell, Mass.

Sold by all Druggists. Price \$1; six bottles, \$5.

## THE GREAT SUCCESS

Of **Ayer's Sarsaparilla** is due to the fact that it meets the wants of the people, being economical to use and always reliable and effective. Its ingredients are the best, and their combination the result of profound study and skill. Thus, for all diseases originating in impure blood, **Ayer's Sarsaparilla** stands unrivaled.

"As a blood purifier and general builder-up of the system," says Eugene I. Hill, M. D., 381 Sixth Avenue, N. Y., "I have never found anything to equal Ayer's Sarsaparilla."

Mrs. Eliza A. Clough, Matron of the M. E. Seminary, Tilton, N. H., writes: "Every winter and spring my family, including myself, use several bottles of Ayer's Sarsaparilla. Experience has convinced me that, as a powerful blood purifier, it is superior to any other preparation of Sarsaparilla."

"Ayer's Sarsaparilla gives better satisfaction than any other blood medicine I handle."  
—GEORGE W. WHITMAN, Albany, Indiana.

### Ayer's Sarsaparilla,

Prepared by Dr. J. C. Ayer & Co., Lowell, Mass.

Sold by all Druggists. Price \$1; six bottles, \$5.

## ALL TRAVELERS,

Whether by land or by sea, who are liable to be out of reach of drug stores and doctors, would do well to have a supply of **Ayer's Pills** at hand. For this purpose the pills are put up in bottles as well as boxes, and may be conveniently carried in one's pocket. Six of the most distinguished physicians of Syracuse, N. Y., in giving their joint testimony as to the excellent medical combination of Ayer's Pills, make this point: "Their beautiful coating of gelatine and sugar is a great advantage, in that it protects them from change by time and climate, and renders them pleasant and even agreeable to take."

"During the twenty-five years I have lived on the frontier," writes John McDowell, of Sweetwater, Col., "Ayer's Pills have been my best friend. I have lived mostly where I had no doctor within twenty miles, and I have been hard sick several times; but I always keep Ayer's medicines on hand, and with them, and the Almanac, have pulled through. I have also doctored others, and believe I have saved some valuable lives by the use of Ayer's Pills."

### Ayer's Pills,

Prepared by J. C. Ayer & Co., Lowell, Mass. Sold by all dealers in medicine.

:- 1888 :-

1888.

Jan.

Sunday  
Monday  
Tuesday  
Wednesday  
Thursday  
Friday  
Saturday

1 2 3 4 5 6 7  
8 9 10 11 12 13 14  
15 16 17 18 19 20 21  
22 23 24 25 26 27 28  
29 30 31

Feb.

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26 27 28 29

Mar.

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April

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May

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June

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1888.

July

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Monday  
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Wednesday  
Thursday  
Friday  
Saturday

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Aug.

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Sept.

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Oct.

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Nov.

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25 26 27 28 29 30

Dec.

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8 9 10 11 12 13 14 15  
16 17 18 19 20 21 22  
23 24 25 26 27 28 29  
30 31



AN AMERICAN BEAUTY.



# Almanac for 1888. Illustrated by Celebrated Artists

AND CONTAINING SOME STATISTICS  
AND USEFUL INFORMATION  
WELL WORTH KNOWING —



## Published by

E. A. HALL,  
GREENFIELD,  
MASS.



J. Vibert

1st Mo.      **JANUARY.**      31 Days.

Day Year	Day Month	Day Week	Noon Washing- ton Mean Time	Sun						Moon's Rises	Moon's Phases
				H	M	S	H	M	S	1-ses	Sets
1	1	SUN	12 3 46	7	25	4	44	7	23		
2	2	M	12 4 47	7	25	4	44	8	28		
3	3	T	12 4 48	7	25	4	45	9	35		
4	4	W	12 5 49	7	25	4	46	10	41		
5	5	T	12 5 50	7	25	4	47	11	51		
6	6	F	12 6 51	7	25	4	48	morn		3 q.	
7	7	S	12 6 52	7	24	4	49	0	59		
8	8	S	12 6 53	7	24	4	50	2	9		
9	9	M	12 7 54	7	24	4	51	3	19		
10	10	T	12 7 55	7	24	4	52	4	25		
11	11	W	12 8 56	7	24	4	53	5	33		
12	12	T	12 8 57	7	23	4	54	6	33		
13	13	F	12 8 58	7	23	4	55	sets			
14	14	S	12 9 59	7	22	4	56	6	34		
15	15	SUN	12 9 30	7	22	4	57	7	37		
16	16	M	12 10 0	7	22	4	59	8	38		
17	17	T	12 10 1	7	21	5	0	9	38		
18	18	W	12 10 2	7	21	5	1	10	36		
19	19	T	12 10 3	7	20	5	2	11	32		
20	20	F	12 11 4	7	20	5	3	morn			
21	21	S	12 11 33	7	19	5	4	0	28	1 q.	
22	22	SUN	12 11 50	7	18	5	6	1	24		
23	23	M	12 12 51	7	18	5	7	2	21		
24	24	T	12 12 52	7	17	5	8	3	18		
25	25	W	12 12 53	7	16	5	9	4	14		
26	26	T	12 12 54	7	15	5	10	5	11		
27	27	F	12 13 0	7	15	5	12	6	5		
28	28	S	12 13 11	7	14	5	13	ries			
29	29	SUN	12 13 22	7	13	5	14	6	16		
30	30	M	12 13 32	7	12	5	15	7	23		
31	31	T	12 13 4	7	11	5	17	8	32		



TOBOGGANING.

## MISCELLANEOUS.

### TILL THE DOCTOR COMES.

**SUFFOCATION BY VAPORS.**—Throw cold water on face and body, drying at intervals. Keep the body moderately warm.

**CHOKING.**—Drop on all fours and cough.

**BLEEDING AT THE NOSE.**—Find by touch the artery which runs to the nose (generally) close to the base of the outer wall of the nostril. Press it down upon the bone.

**APOPLEXY.**—Remove everything from neck, raise the head, see that air is plentiful. Leeches to the temples.

**CONVULSIVE FITS.**—Air. Put subject into a warm bath in position to breathe easily.

**Fainting.**—Put subject on back, perfectly level. Air. Ammonia to nose. Gentle stimulant when patient can swallow. Keep extremities warm.

**LIME IN THE EYE.**—Clean the eye with a

feather, or camel's hair brush; bathe with weak vinegar and water.

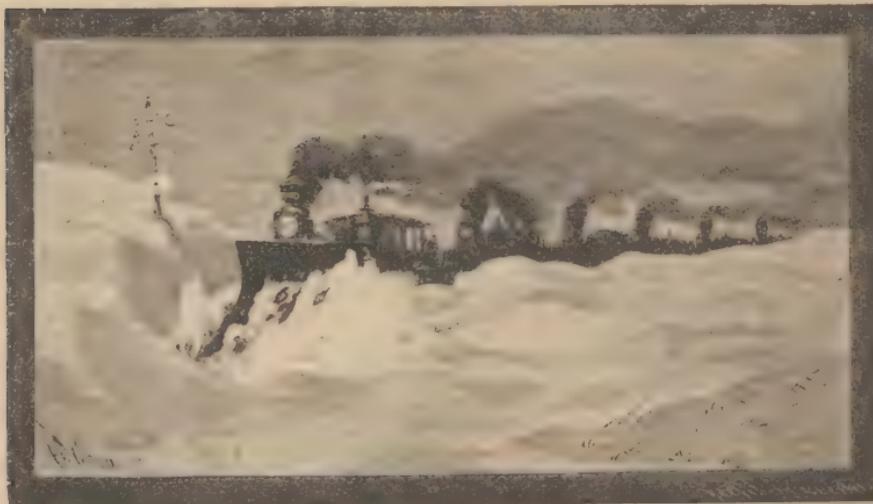
**SNAKE BITES.**—Administer ammonia freely.

**SUN STROKE.**—With pulse strong: cold water douches; free exposure to current of air. With pulse weak: strong stimulants, but no cold water.

**WOUNDS.**—Scarlet color and spurting indicate arterial blood; ligature on side of wound nearest the heart (dangerous). Dark color and steady flow indicate venous blood; ligature between wound and extremity.

**LIGATURE.**—Make a small roll of a bit of linen or paper, and apply it at the point to be compressed. Tie a handkerchief over it, and use a stick to twist it tight.

**HICCOUGHING.**—Take water in slow sips without drawing breath.



SNOWED IN.

### MAKE IT EASY FOR THE POST-OFFICE.

A BUSINESS card can be mailed on a one-cent stamp, if there be no written matter excepting the address.

PRINTED matter constitutes the third class, and is rated at one cent for every two ounces.

MATTER of the third or fourth class may be marked with the sender's name and address in writing, thus: "From—."

MERCHANDISE (with certain exceptions) constitutes the fourth class, and is rated at one cent per ounce.

A SIMPLE dedication or inscription in writing, in a book, will not bar it from the third class.

NOTCHING the ends or cutting off the corners of a sealed envelope, will not fill the bill regarding packages wrapped so that contents may be readily examined.

A LABEL bearing address of destination may be gummed to a postal card, but anything else attached will make the same unavailable.

REPRODUCTIONS from originals of circulars or other matter not in the nature of a personal correspondence, produced by the electric pen, papyrograph, metallograph, hectograph, cheirograph or copygraph processes are entitled to pass in the mails, in unsealed envelopes, as third-class matter. Blanks made by the e processes filled out in writing, are also entitled to pass in the mails at third-class rates, the same as "printed commercial papers, filled out in writing."

NO DOCUMENTS which in themselves represent monetary value, can be sent at third-class rates.

2d Mo.

## FEBRUARY.

29 Days.

Day Year	Day Month	Day Week	Noon Wash- ington Time	Sun. Lunar Sp.								Moon Re- sid.	Moon Phases	
				H	M	S	H	M	H	M	H	M		
32	1	W	12 13	50	7	19	5	18	9	42				
33	2	T	12 13	51	7	9	5	19	10	49				
34	3	F	12 14	4	7	8	5	20	12	0				
35	4	S	12 14	10	7	7	5	22	13	13				1 q.
36	5	SUN	12 14	17	7	6	5	23	1	9				
37	6	M	12 14	19	7	5	5	24	2	16				
38	7	T	12 14	24	7	4	5	25	3	23				
39	8	W	12 14	25	7	3	5	26	4	23				
40	9	T	12 14	27	7	1	5	28	5	19				
41	10	F	12 14	28	7	0	5	29	6	7				
42	11	S	12 14	29	6	59	5	30	sets					N.
43	12	SUN	12 14	29	6	58	5	31	6	23				
44	13	M	12 14	25	6	56	5	32	7	25				
45	14	T	12 14	21	6	55	5	34	8	23				
46	15	W	12 14	23	6	51	5	3	9	20				
47	16	T	12 14	19	6	52	5	36	9	16				
48	17	F	12 14	15	6	51	5	37	11	12				
49	18	S	12 14	11	6	50	5	38	morn					
50	19	SUN	12 14	5	6	48	5	40	0	10				1 q.
51	20	M	12 13	59	6	47	5	41	1	8				
52	21	T	12 13	52	6	46	5	42	2	1				
53	22	W	12 13	31	6	44	5	43	2	58				
54	23	T	12 13	35	6	43	5	44	3	51				
55	24	F	12 13	25	6	41	5	45	4	42				
56	25	S	12 13	18	6	40	5	47	5	30				
57	26	SUN	12 13	8	6	38	5	48	rises					
58	27	M	12 12	57	6	36	5	49	6	15				F.
59	28	T	12 12	46	6	35	5	50	7	25				
60	29	W	12 12	35	6	34	5	51	8	36				



3d Mo.

**MARCH.**

31 Days.

Day Year	Day Month	Day Week	Noon Washington Mean Time	N. M. S. H. M. M. H. M. N. M.												Moon's Phases	
				Sun.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Sun.	Mo.	Tu.	We.	Th.		
61	1	T	12	22	6	34	5	51	9	48							
62	2	F	12	12	10	6	32	5	52	10	50						
63	3	S	12	11	57	6	31	5	54	morn.							
64	4	SUN	12	11	43	6	29	5	55	0	5						3 q.
65	5	M	12	11	29	6	28	5	56	1	15						
66	6	T	12	11	15	6	26	5	57	2	10						
67	7	W	12	11	0	6	24	5	58	3	15						
68	8	T	12	10	45	6	23	5	59	4	4						
69	9	F	12	10	30	6	21	6	0	4	48						
70	10	S	12	10	14	6	20	6	1	5	25						
71	11	SUN	12	9	58	6	18	6	2	5	59						
72	12	M	12	9	42	6	16	6	3	sets							
73	13	T	12	9	25	6	15	6	4	7	8						
74	14	W	12	9	8	6	13	6	6	8	7						
75	15	T	12	8	51	6	11	6	7	9	4						
76	16	F	12	8	31	6	10	6	8	10	0						
77	17	S	12	8	16	6	8	6	9	10	57						
78	18	SUN	12	7	58	6	6	6	10	11	51						
79	19	M	12	7	40	6	5	6	11	morn.							
80	20	T	12	7	22	6	3	6	12	0	47						1 q.
81	21	W	12	7	4	6	1	6	13	1	41						
82	22	T	12	6	46	6	0	6	14	2	32						
83	23	F	12	6	27	5	58	6	15	3	20						
84	24	S	12	6	9	5	56	6	16	4	4						
85	25	SUN	12	5	50	5	55	6	17	4	46						
86	26	M	12	5	32	5	53	6	18	5	24						
87	27	T	2	5	13	5	52	6	19	18	8						
88	28	W	12	4	55	5	50	6	20	7	27						
89	29	T	12	4	36	5	48	6	21	8	40						
90	30	F	12	4	18	5	47	6	22	9	54						
91	31	S	12	4	0	5	45	6	24	11	6						

**EMBER DAYS.**

February 22, 24, 25; May 23, 25, 26;  
September 19, 21, 22; December 19, 21,  
22.

F.

# ASTRONOMICAL PHENOMENA, ETC.

## ASTRONOMICAL PHENOMENA, Etc., 1888.

The year 1888 is Bissextile, or Leap-Year. The 113th year of the Independence of the United States of America begins July 4.

### ECLIPSES IN 1888.

In the year 1888 there will be five eclipses, three of the Sun and two of the Moon, as follows:

I. A Total Eclipse of the Moon, January 28, visible in nearly all parts of the world.

If the Moon rises at any place in the United States after the time in the following table for the beginning of the eclipse at that place, then the eclipse will have begun before the rising, and will show more or less size when rising. Largest size 20 digits, the Moon's diameter being 12 digits.

	Inter-colonial.		Eastern.		Central.		Mountain.		Pacific.	
	D.	H. M.	D.	H. M.	D.	H. M.	D.	H. M.	D.	H. M.
Eclipse begins	28	5 30	eve.	4 30	eve.	3 30	eve.	invisible.		
Total phase begins	28	6 31	eve.	5 30	eve.	4 31	eve.	"		"
Middle of eclipse	28	7 20	eve.	6 20	eve.	5 20	eve.	"		"
Total phase ends	28	8 9	eve.	7 9	eve.	6 9	eve.	5 9	eve.	"
Eclipse ends	28	9 9½	eve.	8 9½	eve.	7 9½	eve.	6 9½	eve.	"

II. A Partial Eclipse of the Sun, February 11, invisible in the United States.

III. A Partial Eclipse of the Sun, July 9, Invisible in the United States.

IV. A Total Eclipse of the Moon, July 22, 23, visible as follows:

	Inter-colonial.		Eastern.		Central.		Mountain.		Pacific.	
	D.	H. M.	D.	H. M.	D.	H. M.	D.	H. M.	D.	H. M.
Eclipse begins	22	11 55 eve.	22	10 55 eve.	22	9 55 eve.	22	8 55 eve.	22	7 55 eve.
Total phase begins	23	0 54 mo.	23	11 54 eve.	22	10 54 eve.	22	9 54 eve.	22	8 54 eve.
Middle of eclipse	23	1 45 mo.	23	0 45 mo.	22	11 45 eve.	22	10 45 eve.	22	9 45 eve.
Total phase ends	23	2 36 mo.	23	1 36 mo.	22	11 36 eve.	22	10 36 eve.	22	9 36 eve.
Eclipse ends	23	3 35 mo.	23	2 35 mo.	22	1 35 mo.	22	0 35 mo.	22	11 35 eve.

Size when largest 22 digits, the Moon's diameter being 12 digits.

V. A Partial Eclipse of the Sun, August 7, invisible in the United States.

### CHURCH DAYS AND CYCLES OF TIME.

Septuagesima Sunday	Jan. 29	Trinity Sunday	May 27
Sextagesima	Feb. 5	Corpus Christi	" 31
Quinquagesima	" 12	Advent Sunday	Dec. 2
Ash Wednesday	" 15	Dominical Letters	A and G
Quadragesima Sunday	" 19	Epact	17
Mid-Lent	March 11	Golden Number	8
Palm Sunday	" 25	Solar Cycle	21
Good Friday	" 30	Roman Indiction	1
Easter Sunday	April 1	Julian Period	6601
Low Sunday	" 8	Dionysian Period	217
Rogation Sunday	May 6	Lunar Cycle of Jews	5
Ascension Day	" 10	The year 5649 of the Jewish Era begins at	
Whit Sunday	" 20	sunset on September 5.	

### PLANETS REGARDED AS MORNING AND EVENING STARS.

#### MORNING STARS.

Mercury, until January 18, and from March 3 to May 10, and from July 9 to August 23, and from October 31 to December 28.

Venus, until July 11.

Mars, until January 5.

Jupiter, until February 24, and after December 8.

Saturn, from August 1 to November 11.

Uranus, until January 7, and after October 10.

Neptune, from May 20 to August 24.

#### EVENING STARS.

Mercury, from January 18 to March 3, and from May 10 to July 9, and from August 23 to October 31, and after December 28.

Venus, after July 11.

Mars, after January 5.

Jupiter, from February 24 to December 8.

Saturn, until August 1, and after November 11.

Uranus, from January 7 to October 10.

Neptune, until May 20, and after August 24.

### PLANETS BRIGHTEST, OR BEST SEEN.

Mars, April 11.

Jupiter, May 22.

Saturn, January 23.

Uranus, April 4.

Neptune, Nov. 22.

Mercury, February 14 to 17, June 9 to 12, and October 5 to 8, setting early in the evenings. Also March 30 to April 2, July 29 to August 1, and November 17 to 20, rising mornings some before the Sun.

Venus, not brightest this year.



BOUND HOME.

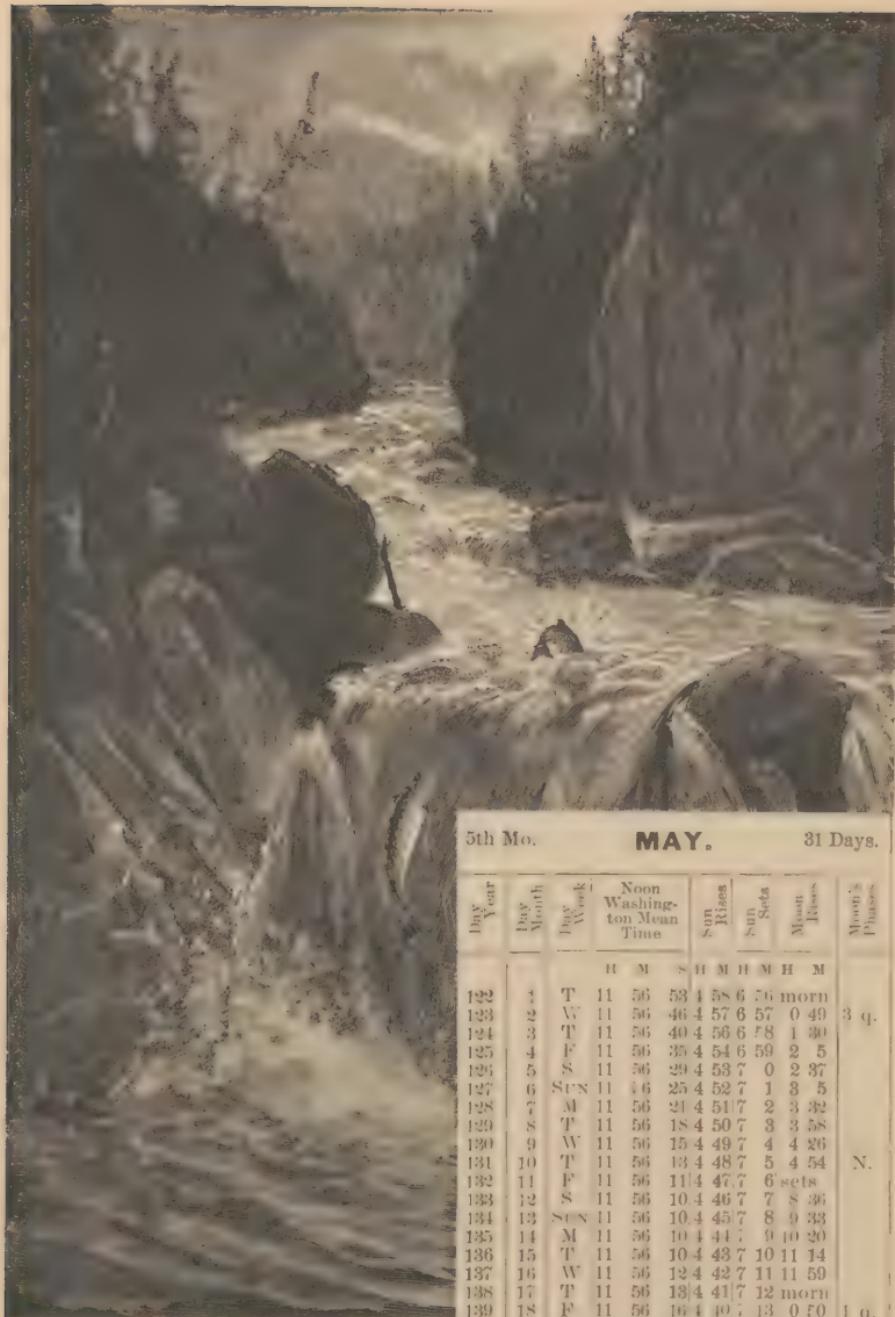


#### 4th Mo.

APRIL.

30 Days.

Date Year	Time Mean	Time W.	Washington Av.	H	N	S	A	M	H	M	Sets	Moons	Morn	Moons	
														Moons	
92	1	SUN	12	3	42	5	43	6	2	morn					
93	2	M	12	3	24	5	46	6	2	0	12				
94	3	T	12	3	6	5	49	6	25	1	12				3 q.
95	4	W	12	2	18	5	35	6	28	2	4				
96	5	T	12	2	31	5	35	6	29	2	4				
97	6	F	12	2	13	5	35	6	30	3	4				
98	7	S	12	1	56	5	33	6	31	4	2				
99	8	SUN	12	1	40	5	32	6	32	4	32				
100.	9	M	12	1	23	5	30	6	33	5	0				
101.	10	T	12	1	5	5	29	6	34	5	29				
102.	11	W	12	0	51	5	27	6	35	sets					
103.	12	T	12	0	35	5	25	6	36	7	55				
104.	13	F	12	0	29	5	24	6	37	8	51				
105.	14	S	12	0	5	5	22	6	38	9	47				
106.	15	SUN	11	59	50	5	21	6	39	10	42				
107.	16	M	11	59	36	5	19	6	40	11	36				
108.	17	T	11	59	22	5	18	6	41	morn					
109.	18	W	11	59	9	5	16	6	42	0	26				
110.	19	T	11	58	55	5	15	6	43	1	15				1 q.
111.	20	F	11	58	48	5	13	6	44	1	50				
112.	21	S	11	58	39	5	12	6	45	2	40				
113.	22	SUN	11	58	19	5	10	6	46	3	18				
114.	23	M	11	58	7	5	9	6	47	3	53				
115.	24	T	11	57	59	5	8	6	48	4	28				
116.	25	W	11	57	49	5	6	6	50	rises					
117.	26	T	11	57	36	5	56	5	51	7	30				
118.	27	F	11	57	26	5	56	5	52	8	45				
119.	28	S	11	57	17	5	26	5	53	9	57				
120.	29	SUN	11	56	9	5	16	5	54	11	1				
121.	30	M	11	56	8	4	59	5	55	11	59				



5th Mo.

**MAY.**

31 Days.

Day Year	Day Month	Day Week	Noon Wash- ington Mean Time	Sun Rises						Sun Sets						Moon Rises						Moon's Phase
				H	M	S	H	M	H	M	S	H	M	H	M	S	H	M	S	H	M	
122	4	T	11	56	53	4	58	6	57	6	57	6	57	6	57	6	57	6	57	6	57	3 q.
123	5	W	11	56	46	4	57	6	57	6	57	6	57	6	57	6	57	6	57	6	57	
124	6	T	11	56	40	4	56	6	57	6	57	6	57	6	57	6	57	6	57	6	57	
125	7	F	11	56	35	4	54	6	59	6	59	6	59	6	59	6	59	6	59	6	59	
126	8	S	11	56	29	4	53	7	6	53	7	6	53	7	6	53	7	6	53	7	6	
127	9	T	11	56	25	4	52	7	6	52	7	6	52	7	6	52	7	6	52	7	6	
128	10	W	11	56	21	4	51	7	6	51	7	6	51	7	6	51	7	6	51	7	6	
129	11	T	11	56	18	4	50	7	6	50	7	6	50	7	6	50	7	6	50	7	6	
130	12	F	11	56	15	4	49	7	6	49	7	6	49	7	6	49	7	6	49	7	6	
131	13	S	11	56	13	4	48	7	6	48	7	6	48	7	6	48	7	6	48	7	6	
132	14	T	11	56	11	4	47	7	6	47	7	6	47	7	6	47	7	6	47	7	6	
133	15	W	11	56	10	4	46	7	6	46	7	6	46	7	6	46	7	6	46	7	6	
134	16	T	11	56	10	4	45	7	6	45	7	6	45	7	6	45	7	6	45	7	6	
135	17	F	11	56	10	4	44	7	6	44	7	6	44	7	6	44	7	6	44	7	6	
136	18	S	11	56	10	4	43	7	6	43	7	6	43	7	6	43	7	6	43	7	6	
137	19	T	11	56	12	4	42	7	11	11	59	11	59	11	59	11	59	11	59	11	59	
138	20	W	11	56	13	4	41	7	12	12	59	12	59	12	59	12	59	12	59	12	59	
139	21	T	11	56	16	4	40	7	13	13	59	13	59	13	59	13	59	13	59	13	59	
140	22	F	11	56	18	4	39	7	14	14	59	14	59	14	59	14	59	14	59	14	59	
141	23	S	11	56	22	4	38	7	15	15	59	15	59	15	59	15	59	15	59	15	59	
142	24	T	11	56	26	4	37	7	16	16	59	16	59	16	59	16	59	16	59	16	59	
143	25	W	11	56	30	4	37	7	16	16	59	16	59	16	59	16	59	16	59	16	59	
144	26	T	11	56	35	4	36	7	17	17	59	17	59	17	59	17	59	17	59	17	59	
145	27	F	11	56	40	4	35	7	18	18	59	18	59	18	59	18	59	18	59	18	59	
146	28	S	11	56	46	4	34	7	19	19	59	19	59	19	59	19	59	19	59	19	59	
147	29	T	11	56	52	4	34	7	20	8	59	8	59	8	59	8	59	8	59	8	59	
148	30	W	11	56	59	4	33	7	21	9	59	9	59	9	59	9	59	9	59	9	59	
149	31	T	11	57	71	4	33	7	21	10	59	10	59	10	59	10	59	10	59	10	59	
150	1	W	11	57	14	4	32	7	22	11	59	11	59	11	59	11	59	11	59	11	59	
151	2	T	11	57	23	4	32	7	23	12	59	12	59	12	59	12	59	12	59	12	59	
152	3	F	11	57	31	4	31	7	24	0	6	0	6	0	6	0	6	0	6	0	6	

**FIRST STEAMBOAT AND LOCOMOTIVE  
IN THE UNITED STATES.**

The first steamboat plied the Hudson in 1807.

The first use of a locomotive in the United States was in 1829.



THE ENTHUSIAST.



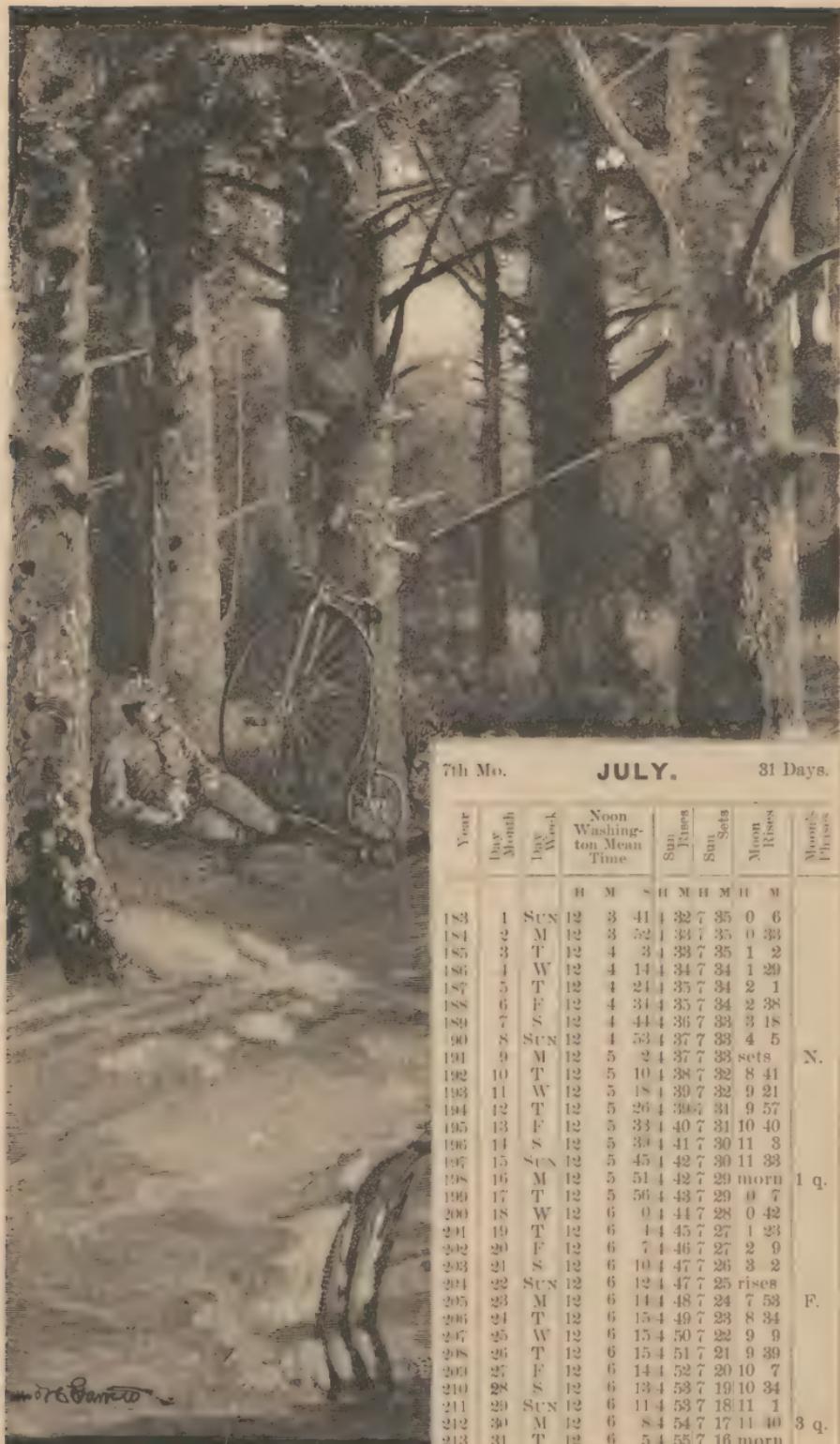
GETTING READY.

6th Mo.

JUNE.

30 Days.

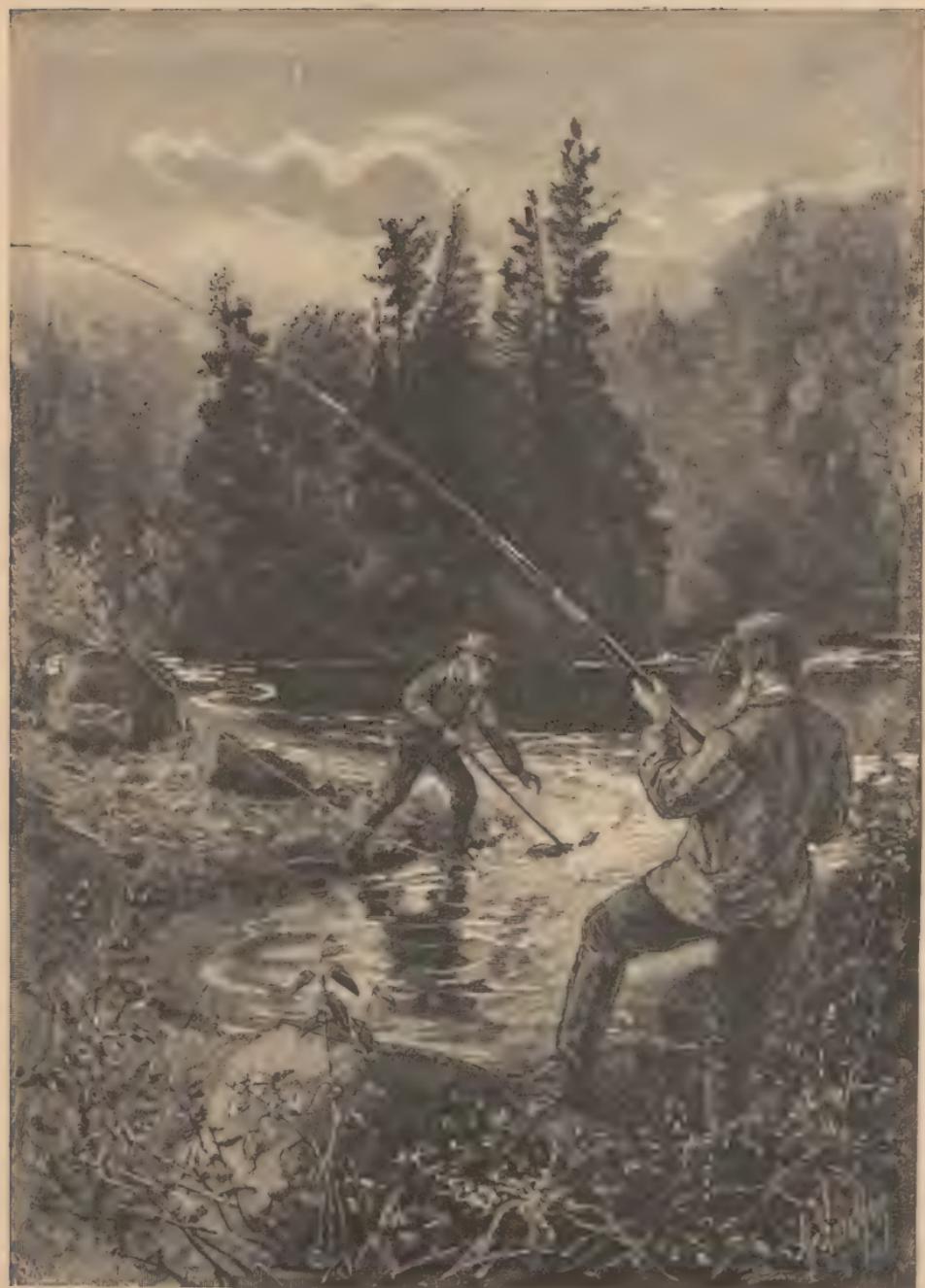
Day of Year	Day Month	Day Week	Noon Washington Mean Time	Sun.												Moon's Phases
				H	M	S	U	N	S	N	E	M	S	N	E	
153	1	F	11	57	49	1	31	7	27	0	39	3	q.			
154	2	S	11	57	50	1	30	7	27	1	9					
155	3	SUN	11	58	0	4	30	7	27		1	37				
156	4	M	11	58	10	4	30	7	27	2	2	4				
157	5	T	11	58	21	4	29	7	27	2	2	29				
158	6	W	11	58	32	4	29	7	28	2	2	50				
159	7	T	11	58	43	4	29	7	29	3	2	27				
160	8	F	11	58	54	4	29	7	29	3	2	7				
161	9	S	11	58	6	4	23	7	30	sets						
162	10	SUN	11	59	18	1	23	7	30	8	21					
163	11	M	11	59	30	4	28	7	31	9	12					
164	12	T	11	59	13	4	28	7	31	9	50					
165	13	W	11	59	5	4	28	7	32	10	41					
166	14	T	12	0	8	4	28	7	32	11	19					
167	15	F	12	0	21	1	28	7	33	11	55					
168	16	S	12	0	34	4	23	7	33	morn						
169	17	SUN	12	0	40	4	23	7	33	0	27	1	q.			
170	18	M	12	0	50	1	23	7	33	1	0					
171	19	T	12	1	12	4	23	7	34	1	30					
172	20	W	12	1	23	4	28	7	34	2	7					
173	21	T	12	1	38	4	29	7	34	2	45					
174	22	F	12	1	5	4	29	7	35	3	20					
175	23	S	12	2	14	4	29	7	35	rises						
176	24	SUN	12	2	16	4	30	7	35	8	23					
177	25	M	12	2	27	4	30	7	35	9	19					
178	26	T	12	2	41	4	30	7	35	10	2					
179	27	W	12	2	50	1	31	7	35	10	41					
180	28	T	12	3	1	4	31	7	35	11	10					
181	29	F	12	3	18	4	31	7	35	11	30					
182	30	S	12	3	29	4	32	7	35	morn	3	q.				



THE MO.

JULY.

81 Days.



CAUGHT THIS TIME.



8th Mo.

## AUGUST.

31 Days.

Day of Year	Day Month	Day Week	Noon Washing- ton Mean Time	Sun.								Moon's Phases
				H	M	S	U	M	H	M	H	
214	1	W	12	6	14	56	7	15	0	1		
215	2	T	12	5	57	4	57	7	14	0	35	
216	3	F	12	5	52	4	58	7	13	1	15	
217	4	S	12	5	47	1	59	7	12	1	58	
218	5	SUN	12	5	40	5	0	7	11	2	48	
219	6	M	13	5	34	5	1	7	10	3	45	
220	7	T	13	5	27	5	2	7	9	8	18	
221	8	W	12	5	19	5	3	7	7	5	57	
222	9	T	12	5	10	5	4	7	6	8	32	
223	10	F	12	5	1	5	5	7	5	9	4	
224	11	S	12	4	52	5	6	7	4	9	37	
225	12	SUN	12	4	42	5	7	7	2	10	9	
226	13	M	12	4	31	5	8	7	1	10	41	
227	14	T	12	4	20	5	9	7	0	11	21	1 q.
228	15	W	12	4	8	5	10	6	38	morn		
229	16	T	12	3	55	5	11	6	35	0	5	
230	17	F	12	3	43	5	12	6	55	0	54	
231	18	S	11	3	29	5	13	6	54	1	51	
232	19	SUN	12	3	15	5	14	6	53	2	53	
233	20	M	12	3	1	5	15	6	51	3	58	
234	21	T	12	2	45	5	16	6	50	rises		
235	22	W	12	2	34	5	17	6	48	7	38	
236	23	T	12	2	15	5	18	6	47	8	7	
237	24	F	12	1	59	5	19	6	47	8	35	
238	25	S	12	1	42	5	20	6	44	9	2	
239	26	SUN	12	1	2	5	21	6	42	9	30	
240	27	M	12	1	8	5	22	6	41	9	59	
241	28	T	12	0	50	5	23	6	39	10	32	
242	29	W	12	0	32	5	24	6	37	11	8	3 q.
243	30	T	12	0	14	5	25	6	30	11	50	
244	31	F	11	50	5	1	27	6	34			

N.

F.

3 q.



## HINTS ABOUT TENNIS.



ORDINARILY, the game of lawn tennis is considered mere child's play. If the game of tennis was such an easy one to play as is generally supposed by those uninitiated, why is it that in this country of several hundred thousand players the number of experts can be counted on the fingers of both hands? These skillful exponents of the graceful game always win when not pitted against each other, and there is one, Mr. R. D. Sears, who has been champion two years, and yet remains to find anything like his equal in this country. Admitting that Mr. Sears was born under a proverbial lucky star, a whole firmament of blue ribbon planets would not have helped him to attain the championship if he did not naturally possess a skillful turn of the wrist and an ability to impart to the ball a curve and break that makes it, instead of bounding up and striking his antagonist on the belt line, as one conversant with the properties of rubber would naturally suppose, not bounce at all, but go scooting between his legs like a skinned clam-shell across a duck pond.

There is no game that has changed so much in its character of playing in the last five years as lawn tennis. It now requires great agility in reaching the ball and great accuracy in returning it. Then the great object was to return the ball over the net, and as in battledore and shuttlecock, keep it going backward and forward; while now, to be even a moderate player, one must be able to return the swiftest

strokes, and at the same time place them with great accuracy. One unaccustomed to playing the game does not appreciate the difficulty of placing the ball within a foot instead of a yard. This is only acquired by great practice and with players who give difficult strokes. The ability to decide quickly is also a most necessary part of good play, to instantly make the mind up while the ball is coming, and in addition know what strokes it will be most difficult for the opponent to return. It may not be generally understood, no matter in what position a man may be, there will be always a natural stroke for him to make, and the opportunity to play that stroke should never be given to an opponent if it can possibly be avoided. It is only experience and brains that will enable a player to instantly decide what that stroke may be.





9th Mo. **SEPTEMBER.** 30 Days.

Day Year	Day Month	Date Year	Noon Washington Mean Time	Sun	Rise	Set	Moon	Rises	Mean Local		
									H	M	Sec
245	1	SUN	11 59	37 5 25 6	33 0	38					
246	2	SUN	11 59	18 5 28 6	31 1	31					
247	3	MON	11 58	58 5 25 6	29 2	30					
248	4	TUE	11 58	39 5 30 6	28 3	33					
249	5	WED	11 58	19 5 31 6	24 4	39					
250	6	THU	11 57	59 5 32 6	24 8	48					
251	7	FRI	11 57	38 5 33 6	23 7	3*					
252	8	SAT	11 57	18 5 34 6	21 8	10					
253	9	SUN	11 56	56 5 35 6	19 8	11					
254	10	MON	11 56	37 5 36 6	18 9	22					
255	11	TUE	11 56	16 5 37 6	16 10	4					
256	12	WED	11 55	55 5 38 6	15 10	51					
257	13	THU	11 55	34 5 39 6	14 11	45					
258	14	FRI	11 55	13 5 40 6	11 16	070					
259	15	SAT	11 54	51 5 41 6	9 9	41					
260	16	SUN	11 54	30 5 42 6	8 1	47					
261	17	MON	11 54	9 5 43 6	6 2	70					
262	18	TUE	11 53	18 5 44 6	4 3	55					
263	19	WED	11 53	20 5 45 6	3 4	58					
264	20	THU	11 53	7 5 46 6	1	rises					
265	21	FRI	11 52	44 5 47 5	59	7					
266	22	SAT	11 52	23 5 48 5	58	70					
267	23	SUN	11 52	52 5 49 5	56	759					
268	24	MON	11 51	42 5 50 5	54	8 31					
269	25	TUE	11 51	22 5 51 5	53	9 5					
270	26	WED	11 51	15 5 52 5	51	9 44					
271	27	THU	11 50	41 5 53 5	49 10	28					
272	28	FRI	11 50	21 5 54 5	48 11	27					
273	29	SAT	11 50	1 5 55 5	46 morn						
274	30	SUN	11 49	42 5 56 5	44 0	13					

10th Mo. OCTOBER. 31 Days.

Days	Days Month	Days Week	Days Year	Neon Washington Mean Time												Moon's Phase		
				H	M	S	H	M	H	M	S	Sat	Sun	Fri	Thu	Wed	Tue	Mon
275	1	M	11	49	23	5	57	5	43	1	15							
276	2	T	11	49	5	5	58	5	41	2	19							
277	3	W	11	48	46	5	59	5	39	3	27							
278	4	T	11	48	28	6	0	5	38	4	35							
279	5	F	11	48	11	6	1	5	33	5	18							
280	6	S	11	47	53	6	2	5	34	6	40							
281	7	S	11	47	37	6	3	5	33	7	18							
282	8	M	11	47	20	6	4	5	31	7	59							
283	9	T	11	47	4	6	5	5	30	8	46							
284	10	W	11	46	49	6	6	5	28	9	38							
285	11	T	11	45	34	6	7	5	26	10	36							
286	12	F	11	45	19	6	8	5	25	11	40							
287	13	S	11	45	5	6	9	5	23	morn								
288	14	S	11	45	52	6	10	5	22	0	43							
289	15	M	11	45	39	6	12	5	20	1	47							
290	16	T	11	45	26	6	13	5	19	2	50							
291	17	W	11	45	14	6	14	5	17	3	51							
292	18	T	11	45	4	6	15	5	16	4	51							
293	19	F	11	44	53	6	16	5	14	rises								
294	20	S	11	44	43	6	17	5	13	6	0							
295	21	S	11	44	36	6	18	5	11	6	30							
296	22	M	11	44	25	6	19	5	10	7	3							
297	23	T	11	44	15	6	20	5	8	7	40							
298	24	W	11	44	10	6	22	5	7	8	22							
299	25	T	11	44	3	6	23	5	6	9	9							
300	26	F	11	43	57	6	24	5	4	10	1							
301	27	S	11	43	52	5	25	5	3	11	0	3	q					
302	28	S	11	43	48	6	26	5	2	11	59							
303	29	M	11	43	45	6	27	5	1	morn								
304	30	T	11	43	42	3	28	4	59	1	5							
305	31	W	11	43	40	6	29	4	58	2	42							

3 q



11th Mo. **NOVEMBER.** 30 Days.



A Midwinter  
Rêverie





THE Housekeeper should know that

**ANTS, RED.**—Sprigs of winter-green or ground ivy will drive away red ants. Branches of wormwood will serve the same purpose for black ants. The insects may be kept out of sugar barrels by drawing a wide chalk mark around the top, near the edge.

**BOOTS.**—To make leather boots waterproof, saturate them with castor oil; to stop squeaking, drive a peg into the middle of the sole.

**CLINKERS.**—To remove clinkers from stoves or fire-brick, put in about half a peck of oyster shells on top of a bright fire. This may need repeating.

**GREASE SPOTS.**—To remove grease-spots, thoroughly saturate with turpentine, place a soft blotting paper beneath and another on top of the spot, and press it hard. The fat is dissolved, then absorbed by the paper, and entirely removed from the cloth.

**GILT FRAMES.**—To restore gilt frames, rub with a sponge moistened in turpentine.

**INK STAINS.**—To remove stains of ink, wash carefully with pure water, and apply oxalic acid. If the latter changes the dye to a red tinge, restore the color with ammonia.

**PAINT.**—Chloroform will remove paint. When the color of a fabric has been destroyed by an acid, ammonia is applied to neutralize the same: after which an application of chloroform will, in almost all cases, restore the original color.

**SILVERWARE.**—To prevent articles of silverware from tarnishing, first warm them, and then paint them over with a thin solution of collodion in alcohol, using a wide, soft brush for the purpose.

**STARCH.**—To prevent starch from souring when boiled, add a little sulphate of copper.

**FURNITURE, TO CLEAN.**—First rub with cotton waste, dipped in boiled linseed oil, then rub clean and dry with a soft flannel cloth. Care should be taken that the oil is all removed.

**EGG STAINS.**—To remove from spoons, rub with common salt.

**HAIR.**—To clean hair, wash well with a mixture of soft water, 1 pint; sal-soda, 1 ounce, cream tartar,  $\frac{1}{4}$  ounce.

**CUTS.**—A drop or two of creosote on a cut will stop its bleeding.

**BITES AND STINGS OF INSECTS.**—Wash with a solution of ammonia water.

**BITES OF MAD DOGS.**—Apply caustic potash at once to the wound, and give enough whiskey to cause sleep.

**BURNS.** Make a paste of common baking soda and water, and apply it promptly to the burn. It will quickly check the pain and inflammation.

**SCREW.** To remove an obdurate screw, apply a red-hot iron to the head for a short time, the screw-driver being applied immediately while the screw is hot.

**FRUIT STAINS.**—To remove the stains of acid fruit from the hands, wash your hands in clear water, dry slightly, and while yet moist, strike a match and hold your hands around the flame. The stains will immediately disappear.

**IRON RUST.**—To remove from muslin or white goods, thoroughly saturate the spots with lemon juice and salt, and expose to the sun. Usually more than one application is required. A good way to prevent its appearance on clothes is when washing to always have them inclosed in a muslin bag while being boiled.

## WEATHER INDICATIONS.

**Sunset Colors.**—A gray, lowering sunset, or one where the sky is green or yellowish green, indicates rain. A red sunrise, with clouds lowering later in the morning, also indicates rain.

**Halo (Sun Dogs).**—By halo we mean the large circles, or parts of circles, about the sun or moon. A halo occurring after fine weather indicates a storm.

**Corona.**—By this term we mean the small colored circles frequently seen around the sun or moon. A corona growing smaller indicates rain; growing larger, fair weather.

**Rainbows.**—A morning rainbow is regarded as a sign of rain; an evening rainbow, of fair weather.

**Sky Color.**—A deep blue color of the sky, even when seen through clouds, indicates fair weather; a growing whiteness, an approaching storm.

**Fog.**—Fogs indicate settled weather. A morning fog usually breaks away before noon.

**Visibility.**—Unusual clearness of the atmosphere, unusual brightness or twinkling of the stars, indicates rain.

**Clouds.**—In observing clouds, we observe their kinds, motions, and outlines. The clouds frequently called "mare's tails" we term Cirri. They are marked by their light texture, fibrous and sundered as in the "mare's tail," or interlacing as in the far-spreading white cloud, which produce the halo. Small, regularly formed groups of these clouds are frequently seen in fair and settled weather. The Cirri are also the clouds on the fore-part of the storm. In this case they are usually more abundant, their outline is very ragged, and they gradually blend into a white, far-reaching cloud bank. The cloud well-known as "cotton bales," or "thunder heads," we term cumulus. When they appear during the heat of the day and pass away in the evening, continued fair weather may be expected. When they increase with rapidity, sink into the lower part of the atmosphere, and remain as the evening approaches, rain is at hand. If loose patches appear thrown out from their surfaces, showers may be expected. The clouds usually seen after nightfall, lying in one horizontal plane, and not of great extent, are attendant on fine weather. Small, black, inky clouds, and dark scud indicate rain.

**Frost.**—The first frost and last frost are usually preceded by a temperature very much above the mean.



CANADARAGO CAMP.

## MISCELLANEOUS.

### BROKERS' TECHNICALITIES.

A bull is one who operates to raise the value of stocks, that he may buy for a rise.

A bear is one who sells stocks for future delivery, which he does not own at the time of sale.

A corner is when the bears cannot buy or borrow the stock to deliver in fulfillment of their contracts.

Overloaded is when the bulls cannot take and pay for the stock they have purchased.

Short is when a person or party sells stocks when they have none, and expect to buy or borrow in time to deliver.

Long is when a person or party has a plentiful supply of stocks.

A pool or ring is a combination formed to control the price of stocks.

A broker is said to carry stocks for his customer when he has bought and is holding it for his account.

A wash is a pretended sale by special agreement between buyer and seller, for the purpose of getting a quotation reported.

A put and call is when a person gives so much per cent. for the option of buying or selling so much stock on a certain fixed day, at a price fixed the day the option is given.

### TIME ON SHIPBOARD DIVIDED INTO THREE WATCHES.

First Watch—1 bell, 12.30 o'clock; 2 bells, 1 o'clock; 3 bells, 1.30 o'clock; 4 bells, 2 o'clock; 5 bells, 2.30 o'clock; 6 bells, 3 o'clock; 7 bells, 3.30 o'clock; 8 bells, 4 o'clock.

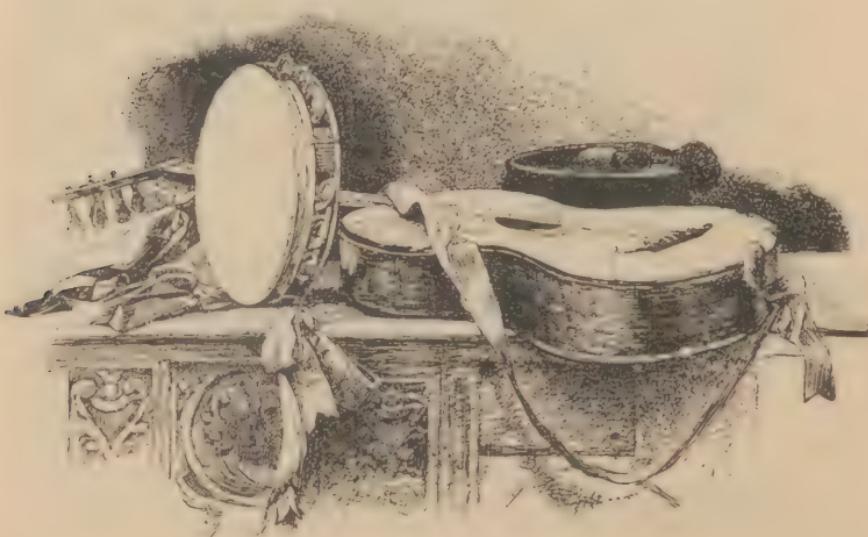
Second Watch—1 bell, 4.30 o'clock; 2 bells, 5 o'clock; 3 bells, 5.30 o'clock; 4 bells, 6 o'clock; 5 bells, 6.30 o'clock; 6 bells, 7 o'clock; 7 bells, 7.30 o'clock; 8 bells, 8 o'clock.

Third Watch—1 bell, 8.30 o'clock; 2 bells, 9 o'clock; 3 bells, 9.30 o'clock; 4 bells, 10 o'clock; 5 bells, 10.30 o'clock; 6 bells, 11 o'clock; 7 bells, 11.30 o'clock; 8 bells, 12 o'clock.

A watch is that part of the officers and crew of a vessel who together attend to working her for an allotted time.

### SOME BIBLICAL FACTS AND FIGURES.

The Bible contains 3,596,480 letters, 773,476 words, 31,153 verses, 1,189 chapters, and 66 books. The word **AND** occurs 46,277 times. The word **LORD** occurs 1,855 times. The word **REVEREND** occurs but once, which is in the 9th verse of the 11th Psalm. The middle verse is the 8th verse of the 118th Psalm. The 21st verse of the 7th chapter of Ezra contains all the letters of the alphabet except the letter J. The 19th chapter of II Kings and the 37th chapter of I Kings are alike. The longest verse is the 9th verse of the 8th chapter of Esther. The shortest verse is the 35th verse of the 11th chapter of St. John. There are no words or names of more than six syllables.



MUSIC HATH CHARMS.

## STATISTICS OF THE PRESS.



WILL THEY MISS ME?—BY SARONY.

## STATISTICS OF THE PRESS.

The United States census reports give the following statistics of the periodical press of this country.

YEAR.	ALL CLASSES		DAILIES.		WEEKLIES.		ALL OTHERS.	
	No.	Circul't'n	No.	Circul't'n	No.	Circul't'n	No.	Circul't'n
1850	2,526	5,142,177	254	758,454	1,902	2,944,629	370	1,439,094
1860	4,051	13,663,409	387	1,478,435	3,173	7,581,930	491	4,603,044
1870	5,871	20,842,475	574	2,601,547	4,295	10,594,643	1,002	7,646,285
1880	11,403	31,177,924	980	3,637,424	8,718	19,459,107	1,705	8,081,393

The whole number of periodicals published in the United States in 1880, according to Rowell, was 14,160.

The total number of *newspapers* published in the world at present is estimated at about 37,000, distributed as follows: United States, 13,000; Germany, 5,500; France, 4,092; Great Britain, 4,000; Japan, 2,000; Italy, 1,400; Austria-Hungary, 1,200; Asia, exclusive of Japan, 1,000; Spain, 850; Russia, 800; Australia, 700; Greece, 600; Switzerland, 450; Holland, 300; Belgium, 300; all others, 1,000. Of these nearly half are printed in the English language.

## MISCELLANEOUS.

### FLAT WRITING PAPER.

(SIZES IN INCHES.)

Flat Letter.....	10 X 16	Medium.....	18 X 23
Flat Cap.....	14 X 17	Check Folio.....	17 X 24
Double Flat Letter.....	16 X 20	Bank Folio.....	19 X 24
Flat Foolscap.....	18 X 16	Double Cap.....	17 X 28
Crown.....	15 X 19	Royal.....	19 X 24
Folio Post.....	17 X 22	Super Royal.....	20 X 28
Demy.....	16 X 21	Imperial.....	28 X 31



TALLY HO.

### NAVY YARDS.

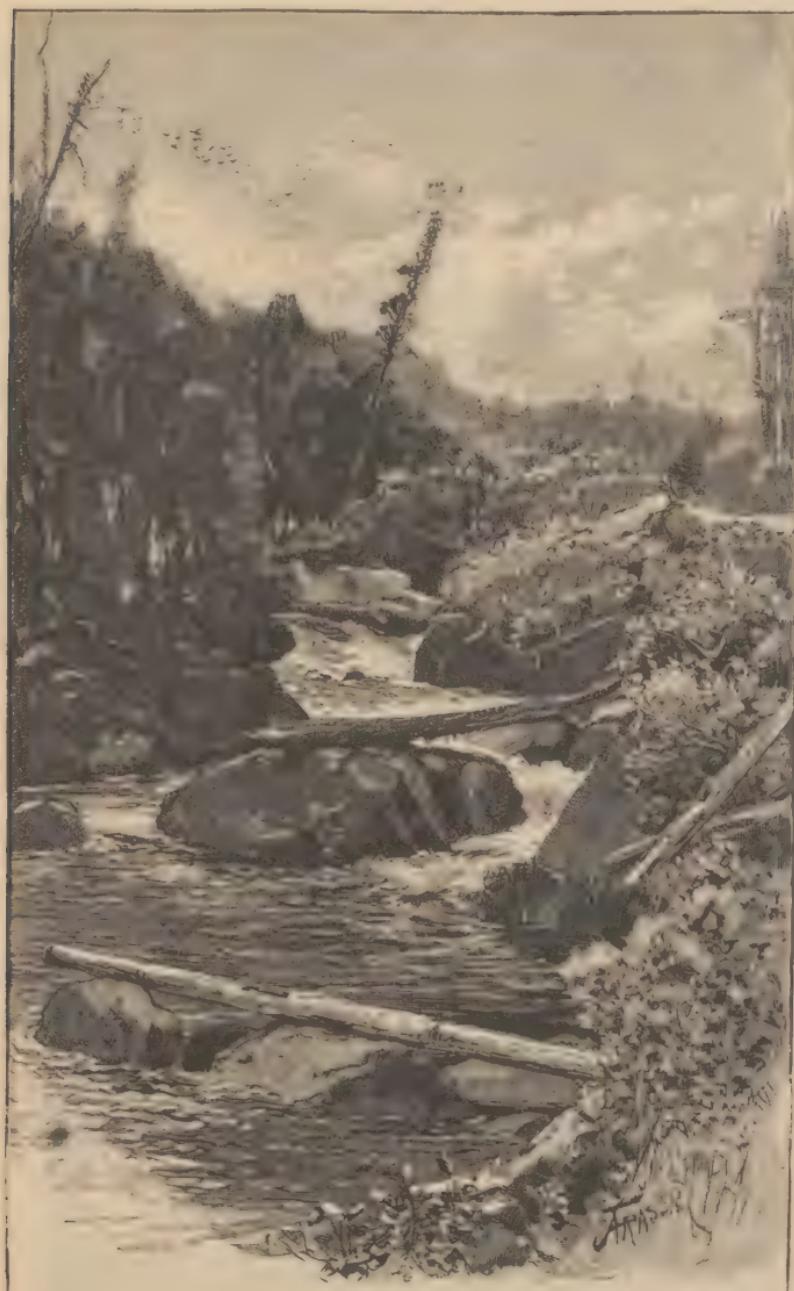
1. Brooklyn Navy Yard, Brooklyn, N. Y.
2. Charlestown Navy Yard, Boston, Mass.
3. Gosport Navy Yard, near Norfolk, Va.
4. Kittery Navy Yard, opposite Portsmouth, N. H.
5. League Island Navy Yard, 7 miles below Philadelphia, Pa.
6. Mare Island Navy Yard, near San Francisco, Cal.
7. New-London Naval Station (unfinished), New-London, Conn.
8. Pensacola Navy Yard, Pensacola, Fla.
9. Washington City Navy Yard, Washington, D. C.

### TIME AT WHICH MONEY DOUBLES AT COMPOUND INTEREST.

At 2 per cent. interest, in 35 years; at 3 per cent., in 23 years  $5\frac{1}{2}$  months; at 4 per cent., in 17 years 8 months; at 5 per cent., in 13 years  $2\frac{1}{2}$  months; at 6 per cent., in 14 years 11 months; at 7 per cent., in 10 years 3 months; at 8 per cent., in 9 years; at 9 per cent., in 8 years and  $\frac{1}{6}$  month; at 10 per cent., in 7 years,  $3\frac{1}{4}$  months.

## THE TERM PENNY AS APPLIED TO NAILS.

The term *penny* as applied to nails is generally supposed to have been derived from pound. It originally meant so many pounds to the thousand ; that is, six-penny means six pounds of nails to the thousand. The thousand was always understood, and six pound, ten pound, etc., were gradually shortened until the present term *penny* has entirely taken the place of pound.



A BIT OF BAD RIVER.

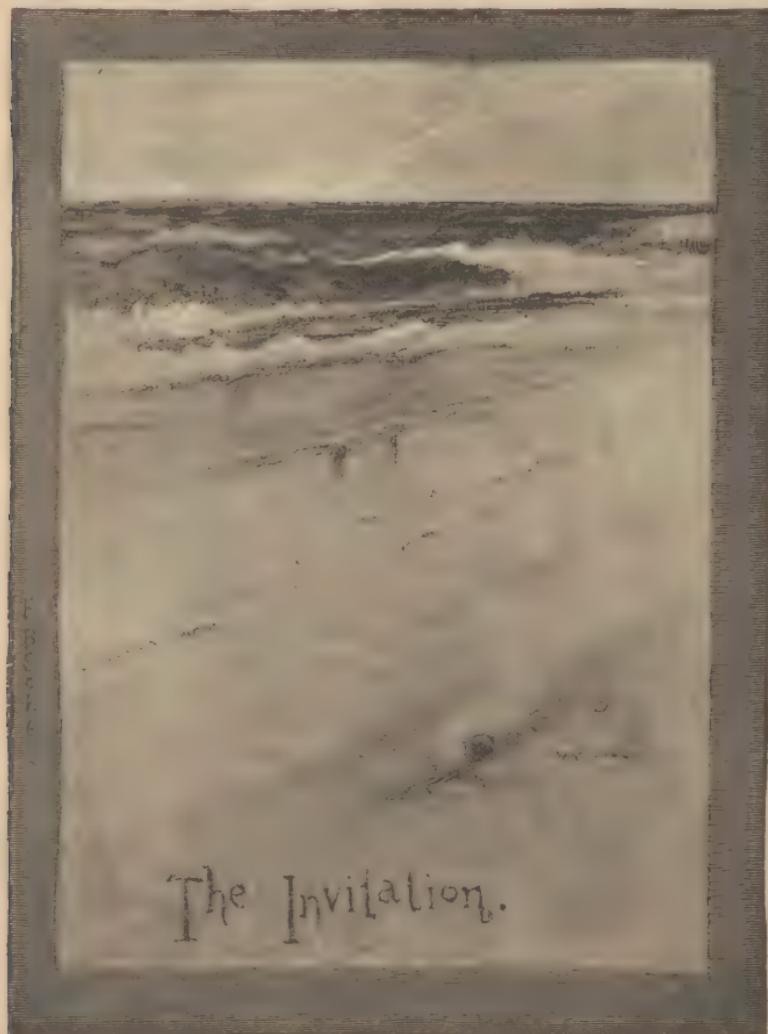
## MISCELLANEOUS.

### PORTRAITS ON AMERICAN CURRENCY.

§1, Washington; §2, Jefferson; §5, Jackson; §10, Webster; §20, Hamilton; §50, Franklin; §100, Lincoln; §500, Gen. Mansfield; §1000, De Witt Clinton; §5000, Madison; §10,000, Jackson. On silver certificates—§1, Martha Washington; §2, Gen. Hancock; §10, Robert Morris, Thos. A. Hendricks; §20, Commodore Decatur; §50, Edward Everett; §100, James Monroe; §500, Charles Sumner, and §1000, W. L. Marcy. On gold notes—§20, Garfield; §50, Silas Wright; §100, Thomas H. Benton; §500, A. Lincoln; §1000, Alexander Hamilton; §5000, James Madison, §10,000, Andrew Jackson.

### THE DEPTH OF THE OCEAN.

The greatest known depth of the ocean is midway between the island of Tristan d'Acunha and the mouth of the Rio de La Plata. The bottom was here reached at a depth of 46,236 feet, or eight and three-fourths miles, exceeding by more than 15,000 feet the height of Mt. Everest, the loftiest mountain in the world. In the North Atlantic Ocean, south of Newfoundland, soundings have been made to a depth of 4,580 fathoms, or 27,480 feet; while depths equalling 34,000 feet, or six and one-half miles, are reported south of the Bermuda Islands. The average depth of the Pacific Ocean, between Japan and California, is a little over 2,000 fathoms; between Chili and the Sandwich Islands, 2,500 fathoms; and between Chili and New Zealand, 1,500 fathoms. The average depth of all the oceans is from 2,000 to 3,000 fathoms.



DEBT OF U. S. AT THE CLOSE OF EACH ADMINISTRATION.



A STYLIZED HOME AT NIGHT.

PUBLIC DEBT OF THE UNITED STATES AT THE CLOSE OF EACH ADMINISTRATION.

1796	George Washington	\$ 83,762,172 00
1800	John Adams	82,976,294 00
1808	Thomas Jefferson	65,196,317 00
1816	James Madison	127,334,933 00
1824	James Monroe	90,269,776 00
1828	John Quincy Adams	67,475,043 00
1833	Andrew Jackson	37,513 00
1840	Martin Van Buren	3,573,343 00
1841	William H. Harrison	5,250,875 00
1844	John Tyler	23,461,672 00
1848	James K. Polk	47,044,862 00
1849	Zachary Taylor	63,061,858 00
1852	Millard Fillmore	66,199,341 00
1856	Franklin Pierce	31,972,537 00
1860	James Buchanan	64,842,287 00
1865	Abraham Lincoln	2,680,647,869 00
1868	Andrew Johnson	2,611,687,851 00
1876	Ulysses S. Grant	2,099,439,344 00
1880	Rutherford B. Hayes	1,942,172,295 00
1881	James A. Garfield	1,840,598,811 00
1885	Chester A. Arthur	1,551,091,207 00

## MISCELLANEOUS.

### SAND BAG FOR THE SICK ROOM.

One of the most convenient articles to be used in a sick room is a sand bag. Get some clean, fine sand, dry it thoroughly in a kettle on the stove; make a bag, about eight inches square, of flannel; fill it with the dry sand, sew the opening carefully together, and cover the bag with cotton or linen. This will prevent the sand from sifting out, and will also enable you to heat the bag quickly, by placing it in the oven, or even on top of the stove. After once using this you will never again attempt to warm the feet or hands of a sick person with a bottle of hot water or a brick. The sand holds the heat a long time, and the bag can be tucked up to the back without hurting the invalid. It is a good plan to make two or three of the bags and keep them on hand, ready for use at any time when needed.

### HOW BIRDS AND ANIMALS ARE GROUPED.

A table showing in a concise manner how various birds and animals are classed:—A covey of Partridges. A wide of Pheasants. A wisp of snipe. A bevy of Quail. A flight of Doves or Swallows. A muster of Peacocks. A siege of Herons. A building of Rooks. A brood of Grouse. A plump of Wild Fowl. A stand of Plovers. A watch of Nightingales. A flock of Geese. A cast of Hawks. A trip of Dottrell. A swarm of Bees. A school of Whales. A shoal of Herring. A herd of Swine. A skulk of Foxes. A pack of Wolves. A drove of Oxen. A sounder of Hogs. A troop of Monkeys. A pride of Lions. A sleuth of Bears.



WENTWORTH MANSION, LITTLE ROCK.

### LEGAL HOLIDAYS IN THE VARIOUS STATES.

**JANUARY 1.** NEW YEAR'S DAY: in Alabama, California, Colorado, Connecticut, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Jersey, New York, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, Vermont, Virginia, West Virginia, and Wisconsin.

**JANUARY 8.** ANNIVERSARY OF THE BATTLE OF NEW ORLEANS: in Louisiana.

**FEBRUARY 22.** WASHINGTON'S BIRTHDAY: in California, Colorado, Connecticut, Florida, Georgia, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, Nevada, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, South Carolina, Texas, Virginia, West Virginia and Wisconsin.

**FEBRUARY 22, 1887.** MARDI GRAS: in Louisiana, and the cities of Mobile, Montgomery, and Selma, Ala.

**MARCH 2.** ANNIVERSARY OF TEXAN INDEPENDENCE: in Texas.

**MARCH 4.** FIREMEN'S ANNIVERSARY: in New Orleans, La.

**APRIL 8, 1887.** GOOD FRIDAY: in Louisiana, Maryland, Minnesota, and Pennsylvania.

**APRIL 21.** ANNIVERSARY OF THE BATTLE OF SAN JACINTO: in Texas.

**APRIL 26.** MEMORIAL DAY: in Georgia.

**MAY 30.** DECORATION DAY: in California, Colorado, Connecticut, Iowa, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont.

**JULY 4.** INDEPENDENCE DAY: in all the States.

**NOVEMBER 8, 1887.** GENERAL ELECTION DAY: in California, Florida, Maryland, Missouri, New Jersey, New York, South Carolina, Texas, and Wisconsin.

**NOVEMBER 24, 1887.** THANKSGIVING DAY: in all the States.

**DECEMBER 25.** CHRISTMAS DAY: in all the States.

Sundays and Fast Days (whenever appointed) are legal holidays in all the States.



REVERIE. BY SARONY.

## PUBLIC PARKS THROUGHOUT THE WORLD.



VENNA—The Prater, 1,500 acres; the Volksgarten, 20; the Hofgarten, 20; the Glacis, 500; Augarten, Briggeneau, the Stadt Park, Botanical Gardens, Belvedere Gardens, and many smaller grounds; also pleasure grounds within easy reach of the city, aggregating about 8,000 acres.

BERLIN—The Thiergarten, 650 acres; also about sixty smaller parks and squares, of from half an acre to 500 acres; Frederick's Park, Humboldt Park, the South East Park and the Little Thiergarten combined, about 650 acres. The total is about 5,000 acres.

DUBLIN—Phoenix Park, 1,753 acres; St. Stephen's Green, 23; also smaller tracts and squares, aggregating about 1,900 acres.

BRUSSELS—Bois de Cambre, 800 acres; Parc de Bruxelles, 80; Parc Leopold, 25; and about forty others, varying in area from one to twelve acres. Total, 1,000 acres.

AMSTERDAM—Vondel Park, 150 acres; also twenty-three squares and parks, aggregating about 800 acres.

TOKIO—The Wooyeno, 2,500 acres; the Shiba, 1,200; the Mookojima, 550; the Asakusa, 500; the Fukagawa (seaside park), 400; the Asukayama, 300; the Imperial Palace grounds, over 2,000; also one hundred and forty local parks and squares, varying in area from one to six acres. Total, nearly 6,000 acres.

PARIS—Forest of Fontainebleau, 42,000 acres; Forest of St. Germain, 8,000; the Bois de Boulogne, 2,200; the Bois de Vincennes, 2,500; Park of St. Cloud, 1,000; Park of Buttes Chaumont, 62; Park of Monceau, 22; Park of Montsouris, 40; Garden of the Tuilleries, 50; Garden of the Luxembourg, 40; Garden of Plants, 22, and other smaller grounds. Total, 172,000 acres.

LONDON—Epping Forest, 6,000 acres; Richmond Park, 2,253; Windsor Park, 3,800; Hampton Court and Bushy Park, 684; Kew Park and Gardens, 300; Wimbledon Common, 628; Hyde Park, 400; St. James' Green and Regent's Park, 450; Hampstead Heath, 240; Kensington Gardens, 290; Alexandra Park, 192; Finsbury Park, 115; Southwark Park, 63; Blackheath, 267; Hackney Downs, 50; Tooting Beck Common, 144; Tooting Gravenny Common, 63; Clapham Common, 220; Burnham Beeches, 374; Bostall Heath, 55; West Ham Park, 80; Plumstead Common, 110; Wormwood Scrubs, 194; Peckham Rye, 64, and others. Total, 22,000 acres.

BROOKLYN—Prospect Park, 515 acres; Parade Ground, 40; Washington Park (Fort Greene), 30; Tompkins Park, 734; City Park, 7½; Carroll Park, 2; City Hall Park, 116; small inclosures, 4; Ocean Parkway (5½ miles long, 270 feet wide), 180; Coney Island Concourse (2,750 feet long, 100 feet wide), 70; Eastern Parkway (2½ miles long, 270 feet wide), 82. Total, 93¾ acres.

NEW YORK—Central Park, 864 acres; Riverside Park, 89; Morningside Park, 314; Mount Morris Park, 20; High Bridge Park, 23; Battery Park, 21; Tompkins Square, 10½; City Hall Park, 84; Washington Square, 8; Union Square, 3½; Madison Square, 616; Reservoir Park, 4½; Stuyvesant Park, 4½. Total, 1,094 acres.

STATE OF NEW YORK—Niagara Reservation, Niagara Falls, 107 acres, of which 82 are in islands and 25 in main shore.

SAN FRANCISCO—Golden Gate City Park, 1,040 acres; local parks, squares, botanic and zoological gardens, 141. Total, 1,181 acres.

BALTIMORE—Druid Hill Park, 700 acres; Patterson Park, 50; Riverside Park, 17½; Federal Hill Park, 8½. Total, 775½ acres.

WASHINGTON—Capitol Grounds, 51 acres; Presidential Mansion Grounds, 81; the Botanical Garden, 10; Smithsonian Institute Grounds, 50; Washington Monument Park, 45; Soldiers' Home, 500; Zoological Garden, 20; Propagating Garden, 8. Total area of grounds, squares, places and reservations, about 1,000 acres.

PHILADELPHIA—Fairmount Park, 2,648 acres; Hunting Park, 40; Washington Square, 7; Franklin Square, 8; Logan Square, 8; Independence Square, 5; Rittenhouse Square, 7; and others, aggregating about 3,000 acres.

CHICAGO—Jackson Park, 586 acres; Washington Park, 371; Gage Park, 20; Midway Plaisance, 90; Lincoln Park, 250; Humboldt Park, 200; Garfield Park, 185; Douglass Park, 180; South Park, 372; Lake Shore, 593, and eleven smaller parks. Total 3,000 acres.

ST. LOUIS—Forest Park, 1,372 acres; Carondelet, 180; O'Fallon, 158; Tower Grove, 267; Lafayette, 30; the Fair Grounds, 83; Missouri Botanical Gardens, 50, and a number of smaller places, varying from one to twelve acres. Total, 2,232 acres.

BUFFALO—The Park, 310 acres; State Asylum Grounds, 200; Forest Lawn Cemetery, 230; The Front, 50; Fort Porter, 17; Parade Ground, 50; also, about 40 acres in eight public squares or places. Total, about 900 acres.

BOSTON—Common and Public Gardens, 72½ acres; small squares and parks, 60¾; Chestnut Hill, Parker Hill and Eagle Hill Reservoirs, 222½; Franklin, 561; Bussy Park and Arnold Arboretum, 567; Brighton Park, 160; Jamaica Park, 122; Muddy River Improvement, 110; Back Bay Park, 106; Wood Island Park, 80; City Point Park, 50; Charles River Embankment, 60; Connecting Parkways, 70; South Bay Park, 35; Savin Hill Park, 13. Total, 2,289½ acres.

THE YELLOWSTONE NATIONAL PARK—About 3,000 square miles in the Territory of Wyoming. It includes Yellowstone Lake, about 326 square miles, with numerous geysers and rugged mountains, forests, meadows, rivers, and other beautiful scenery. Its formation was authorized by Congress in March, 1872.

TROTTING RECORD FOR 80 YEARS.



PRINCE BISMARCK.

TROTTING RECORD FOR 80 YEARS.

The following horses have in succession lowered the mile trotting record :-

1806	Yankee.....	2.59	1866	Dexter.....	2.18
1810	A horse from Boston.....	2.58½	1867	Dexter.....	2.17½
1824	Topgallant (saddle).....	2.40	1871	Goldsmith Maid.....	2.17
1830	Burster (saddle).....	2.32	1872	Goldsmith Maid.....	2.16½
1834	Edwin Forrest (saddle).....	2.31½	1874	Goldsmith Maid.....	2.14
1843	Lady Suffolk (saddle).....	2.28	1878	Rarus.....	2.13½
1844	Lady Suffolk (saddle).....	2.23½	1879	St. Julien.....	2.13½
1852	Tacony (saddle).....	2.26	1880	Maud S.....	2.10½
1853	Tacony (saddle).....	2.25½	1881	Maud S.....	2.10½
1856	Flora Temple.....	2.24½	1884	Jay Eye See.....	2.10
1859	Flora Temple.....	2.19½	1884	Maud S.....	2.09½
1865	Dexter.....	2.18½	1884	Maud S.....	2.09½
		1885	Maud S.....		2.08½



ALMOST PERSUADED TO BE A CHRISTIAN.

THE GREAT BARTHOLDI  
STATUE.

A gift from the people of the Republic of France to the people of the United States.

This Statue of Liberty Enlightening the World commemorates the alliance of the Two Nations in achieving the Independence of the United States of America, and attests their abiding friendship.

Inaugurated October 28, 1886.

AUGUSTE BARTHOLDI, Sculptor.

The following are the dimensions of the great work:—

	Fl.	In.
Height from base to torch	151	1
Foundation of pedestal to		
torch	80	6
Heel to top of head	111	6
Length of hand	16	5
Index finger	8	0
Circumference at second joint	7	6
Size of finger nail 13+10 in.		
Head from chin to cranium	17	8
Head thickness from ear to ear	10	0
Distance across the eye	2	6
Length of nose	4	6
Right arm, length	42	0
Right arm, greatest thickness	12	0
Thickness of waist	35	0
Width of mouth	3	0
Tablet, length	23	7
Tablet, width	13	7
Tablet, thickness	2	0

Dimensions of the pedestal:—

Height of pedestal	89	0
Square sides at base, each	62	0
Square sides at top, each	40	0
Grecian columns above base	72	8

Dimensions of the foundations:—

Height of foundation	65	0
Square sides at bottom	91	0
Square sides at top	66	7

The statue weighs 450,000 pounds, or 225 tons. The bronze alone weighs 200,000 pounds. Forty persons can stand comfortably in the head, and the torch will hold twelve people.

The total number of steps in the winding stairway which leads from the base of the foundation to the top of the torch is 403. From the ground to the top of the pedestal there are 195 steps. The number of steps in the statue, from the pedestal to the head, is 154, and the ladder leading up through the extended right arm to the torch has 54 rounds.

The electric light in the inside of the torch lamp aggregates 50,000 candle power, and at the base of the statue 30,000 candle power, being \$9,000 candle power in all. The entire electrical plant is the gift of President Goff, of the American System.

The entire cost of the work from beginning to end is estimated at \$700,000.

The Statue of Liberty is the tallest statue in the world. Compared with celebrated monuments and buildings, its rank will be found in the following enumeration: Washington Monument, 555 feet; City Hall, Philadelphia, 535 feet; Cathedral of Cologne, 511 feet; Cathedral at Strasburg, 468 feet; Great Pyramid, 450 feet; St. Peter's at Rome, 448 feet; Cathedral at Milan, 360 feet; *Liberty*, 305 feet; Brooklyn Bridge Towers, 287 feet; Trinity Steeple, New-York, 284 feet; Monument, London, 240 feet; Bunker Hill Monument, 221 feet; Arc de Triomphe, Paris, 162 feet; Colossus of Rhodes, 105 feet; Obelisk, New-York, 68 feet.

## MISCELLANEOUS.

### COST OF COALING AN OCEAN STEAMER.

To give an idea of the cost of making one trip across the Atlantic, where everything is sacrificed to speed, the following record of the Oregon of the Guion Line will prove of interest: The Oregon burned 33 tons of coal per hour, or a trifle more than 2 tons per mile, and 5,544 tons for the voyage. Welsh coal costs from \$2 to \$3 per ton, making the cost for a trip about \$18,000.



FACES IN THE FIRE.

### THE BROOKLYN BRIDGE.

The great bridge over the East River was crossed by 27,436,707 persons, of whom 2,965,400 walked. The receipts were \$755,630, the railroad taking in \$673,580, the carriage-ways \$64,518, and the promenade \$17,582. Three persons, "Steve" Brodie, Lawrence Donovan, and William Kirk, jumped from the bridge during the year.

## RARE UNITED STATES COINS AND THEIR VALUE.

The rarest of the Half-cents are as follows: 1793, valued at \$1; 1796, valued at \$10; 1831, 1836, 1840 to 1849, and 1852, valued at \$4.

The rarest of the Cents are as follows: 1793 with wreath is valued at \$2.50; 1793 with chain valued at \$3.50; 1793 with liberty cap, valued at \$4; 1799 valued at \$25; 1804 valued at \$200; 1809 valued at \$1.

The rarest of the Silver Dollars are as follows: 1794 valued at \$35; 1798, with small eagle, valued at \$2; 1799, with five stars facing, valued at \$2; 1801 valued at \$800; 1836 valued at \$5; 1838 valued at \$25; 1839 valued at \$15; 1851 valued at \$20; 1852 valued at \$25; 1854 valued at \$8; 1855 valued at \$5; 1856 valued at \$2; 1858 valued at \$20.

The rarest of the Silver Half Dollars are as follows: 1794 valued at \$5; 1796 valued at \$10, 1797 valued at \$30; 1801 valued at \$2; 1802 valued at \$2; 1815 valued at \$4; 1836 reeded, valued at \$3; 1838 Orleans, valued at \$5; 1852 valued at \$3; 1853, no arrows, valued at \$15.

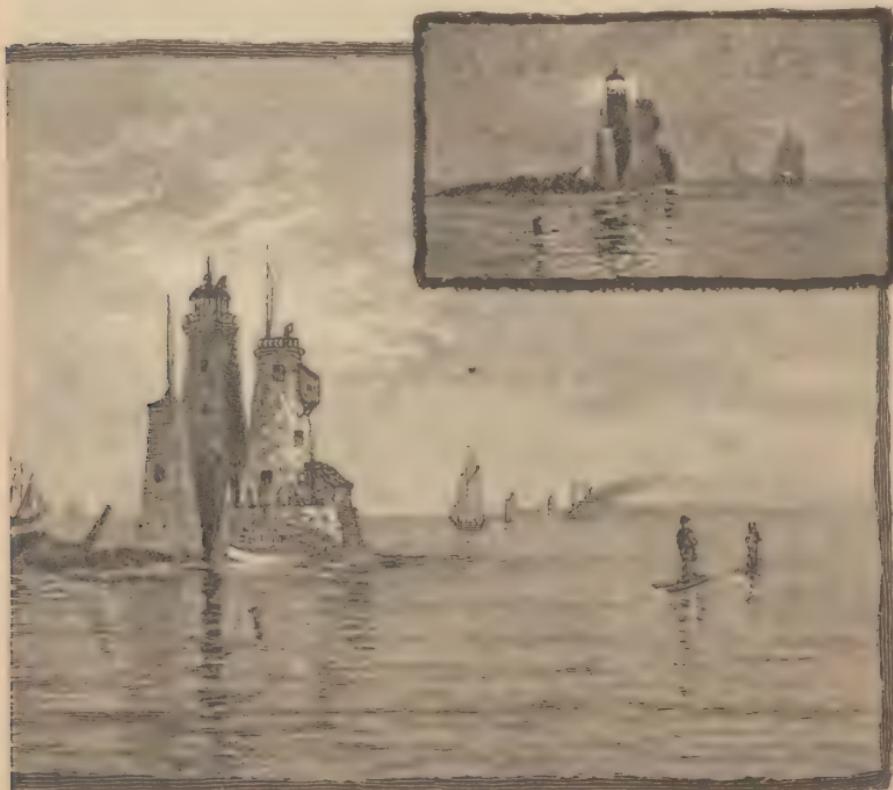
The rarest of the Silver Quarter Dollars are as follows: 1796 valued at \$3; 1804 valued at \$3; 1823 valued at \$50; 1853, no arrows, valued at \$4.

The rarest of the Silver Twenty cent pieces are as follows: 1874 proof, valued at \$10; 1877 proof, valued at \$2; 1878 proof, valued at \$2.

The rarest of the Silver Dimes, or Ten-cent pieces, are as follows: 1796 valued at \$3; 1797, 16 stars, valued at \$4; 1797, 13 stars, valued at \$4.50; 1798 valued at \$2; 1800 valued at \$4; 1801 to 1804 each, valued at \$3; 1804 valued at \$5; 1805 to 1811 each, valued at 50 cts.; 1811 valued at 75 cts.; 1822 valued at \$3; 1848 valued at \$1.

The rarest of the Silver Half-Dimes, or Five-cent pieces, are as follows: 1794 valued at \$3; 1795 valued at 15 cts.; 1796 and 1797 valued at 82 cts. each; 1800 valued at 75 cts.; 1801 valued at \$1.50; 1802 valued at \$50; 1803 valued at \$1.50; 1805 valued at \$5; 1849 valued at \$1.

The rarest of the Silver Three-cent pieces are as follows: 1851 to 1855 valued at 15 cts. each; 1855 valued at 25 cts. each; 1856 to 1862 valued at 15 cts. each; 1863 to 1873 valued at 50 cts. each.



WHALE'S-BACK LIGHT.

## COLLEGE CHEERS.



FAIRY TALES BY PERCIVAL DE LUCE.

## COLLEGE CHEERS.

*Harvard*—“Rah, 'rah, 'rah! 'rah, 'rah, 'rah! 'rah, 'rah, 'rah! Harvard!”

*Yale*—“Rah, 'rah, 'rah! 'rah, 'rah, 'rah! 'rah, 'rah, 'rah! Yale!”

*Princeton*—“Hurray! hurray! hurray! Tiger—sis-s-s! boom! ah!”

*Cornell*—“Cornell! Cornell! Cornell! I yell, yell, yell, Cornell!”

*Columbia*—“Hurray! hurray! hurray! C-o-l-u-m-b-i-a!”

*Wesleyan*—“Rah, 'rah, 'rah! Wesleyan!”

*University of Pennsylvania*—“Hoorah! Hoorah! Hoorah! Penn-syl-van-i-a!”

*Rutgers*—“Hurrah! Hurrah! Hurrah! Bow-wow-wow!”

*Stevens Institute*—“Boom 'rah! boom 'rah! boom 'rah! Stevens!”

*Williams*—“Rah! 'rah, 'rah! Willyums! yams! yums! Willyums!”

*Dartmouth*—“Wah, who, wah! wah, who, wah! —da, didi, Dartmouth! Wah, who, wah!”

## MISCELLANEOUS.

### COMPARATIVE HEIGHT OF THE PRINCIPAL SPIRES IN THE WORLD.



A TEN-POUNDER.

### AGES ATTAINED BY BIRDS.

Blackbird lives .....	12 years	Parrot lives .....	60 years
Blackcap lives .....	15 years	Partridge lives .....	15 years
Canary lives .....	24 years	Peacock lives .....	24 years
Crane lives .....	24 years	Pelican lives .....	50 years
Crow lives .....	100 years	Pheasant lives .....	15 years
Eagle lives .....	100 years	Pigeon lives .....	20 years
Fowl, common, lives .....	10 years	Raven lives .....	100 years
Goldfinch lives .....	15 years	Robin lives .....	12 years
Goose lives .....	50 years	Skylark lives .....	30 years
Heron lives .....	60 years	Sparrow-Hawk lives .....	40 years
Lark lives .....	18 years	Swan lives .....	100 years
Linnet lives .....	23 years	Thrush lives .....	10 years
Nightingale lives .....	18 years	Wren lives .....	8 years

### AGES ATTAINED BY DIFFERENT ANIMALS.

An elephant lives 400 years; a whale, 300; a tortoise, 100; a camel, 40; a horse, 25; a bear, 20; a lion, 20; an ox, 25; a cat, 15; a dog, 14; a sheep, 10; a squirrel, 8; a guinea-pig, 7.



IN THE ADIRONDACKS.

## FACTS FOR BUILDERS.

**O**NE fifth more siding and flooring is needed than the number of square feet of surface to be covered, on account of the lap in siding and matching of flooring.

A cord of stone, 3 bushels of lime and one cubic yard of sand will lay 100 cubic feet of wall.

Twenty-two cubic feet of stone, when built into the wall, is 1 perch.

Three pecks of lime and four bushels of sand are required to each perch of wall.

There are 20 common bricks to a cubic foot when laid; and 15 common bricks to a foot of 8-inch wall when laid.

Five courses of brick will lay one foot in height on a chimney; 8 bricks in a course will make a flue 4 inches wide and 10 inches long.

Fifty feet of boards will build one rod of fence five boards high, first board being 10 inches wide, second 8 inches, third 7 inches, fourth 6 inches, fifth 5 inches.

Cement 1 bushel and sand 2 bushels will cover  $3\frac{1}{2}$  square yards 1 inch thick,  $4\frac{1}{2}$  square

yards  $\frac{3}{4}$  inch thick, and  $6\frac{1}{4}$  square yards  $\frac{1}{2}$  inch thick. One bushel of cement and 1 of sand will cover  $2\frac{1}{2}$  square yards 1 inch thick, 8 square yards  $\frac{3}{4}$  inch thick, and  $4\frac{1}{2}$  square yards  $\frac{1}{2}$  inch thick.

Two thousand shingles, laid 4 inches to the weather, will cover 200 square feet of roof, and 10 $\frac{1}{2}$  pounds of four-penny nails will fasten them on.

### THE WEIGHT, AVOIR-DUPOIS, OF A CUBIC FOOT OF DIFFERENT SUBSTANCES.

One cubic foot of—	lbs.
Brass .....	weighs $504\frac{3}{4}$
Brick .....	125
Granite .....	" 165
Glass .....	180
Iron (wrought) "	$486\frac{3}{4}$
Iron (cast).... "	$450\frac{1}{2}$
Lead .....	" $708\frac{3}{4}$
Marble .....	" 171
Sand .....	" 95
Steel .....	" 490
Tin .....	" 456
Wood (oak) "	55
Wood (yellow pine) "	42
Wood (white pine) .....	" 30
Zinc .....	" 480



## MISCELLANEOUS.

### RESULTS OF SAVING SMALL AMOUNTS OF MONEY.

The following shows how easy it is to accumulate a fortune, provided proper steps are taken. The table shows what would be the result at the end of fifty years by saving a certain amount each day and putting it at interest at the rate of six per cent.:

<i>Daily Savings.</i>	<i>The Result.</i>	<i>Daily Savings.</i>	<i>The Result.</i>
One Cent.....	\$ 950	Sixty Cents.....	\$ 57,024
Ten Cents.....	9,504	Seventy Cents.....	66,528
Twenty Cents.....	19,006	Eighty Cents.....	76,032
Thirty Cents.....	28,512	Ninety Cents.....	85,537
Forty Cents.....	38,015	One Dollar.....	95,041
Fifty Cents.....	47,520	Five Dollars.....	475,208

Nearly every person wastes enough in twenty or thirty years, which, if saved and carefully invested, would make a family quite independent; but the principle of small savings has been lost sight of in the general desire to become wealthy.



### RELATIVE TO NOTES.

DEMAND NOTES are payable on presentation without grace, and bear legal interest, after a demand has been made, if not so written. An indorser on a demand note is holder only for a limited time, variable in different States.

A NEGOTIABLE NOTE must be made payable either to bearer or be properly indorsed by the person to whose order it is made. If the indorser wishes to avoid responsibility, he can indorse "without recourse."

A JOINT NOTE is one signed by two or more persons, who each becomes liable for the whole amount.

THREE DAYS' GRACE are allowed on all time notes, after the time for payment expires; if not then paid, the indorser, if any, should be legally notified to be holder.

NOTES FAILING DUE ON SUNDAY, or on a legal holiday, must be paid the day previous.

NOTES DATED ON SUNDAY are void.

ALTERING A NOTE in any manner by the holder, makes it void.

NOTES GIVEN BY MINORS are void.

THE MAKER of a note that is lost or stolen is not released from payment if the amount and consideration can be proven.

NOTES OBTAINED BY FRAUD, or given by an intoxicated person, cannot be collected.

AN INDORSER has a right of action against all whose names were previously on a note endorsed by him.

DEPOSITS OF MONEY IN A BANK placed to the credit of depositors, are always subject to their check for full amount due.

### THE CONSULTATION.

POWERS OF LOCOMOTION OF ANIMALS.



LOVE IN THE OLDEN TIMES.

POWERS OF LOCOMOTION OF ANIMALS AND AVERAGE VELOCITY OF VARIOUS BODIES.

(MILES IN HOURS AND FEET IN SECONDS).

	PER HOUR	PER SEC.
A man walks.....	3 miles, or	4 feet
A horse trots.....	7 " or	10 "
A horse runs.....	20 " or	29 "
Steamboat runs.....	18 " or	23 "
Sailing vessel runs.....	10 " or	14 "
Slow rivers flow.....	3 " or	4 "
Rapid rivers flow.....	7 " or	10 "
A moderate wind blows.....	7 " or	10 "
A storm moves.....	36 " or	52 "
A hurricane moves.....	80 " or	117 "
A rifle ball moves.....	1,000 " or	1,466 "
Sound moves.....	743 " or	1,142 "
Light moves.....	192,000 miles per second	
Electricity moves.....	288,000 " "	

## COST OF THE WARS OF THE UNITED STATES.

The Revolutionary war cost the United States \$135,193,703. The Colonies furnished, from 1775 to 1783, 395,064 troops.

The war of 1812 cost the United States \$107,159,003. The number of troops engaged is estimated at 471,622.

The Mexican war cost the United States \$100,000,000. The number of troops engaged was 101,282.

The war of the Rebellion cost the United States \$6,189,929,900. The number of Federal troops was 2,859,132.

## ORIGIN OF THE DOLLAR.

Previous to July 6, 1785, the English pound was in use. On that date the Continental Congress established the dollar, although the exact weight was not fixed until August 8, 1786, when it was made to equal about that of the old Spanish dollar. The dollar did not originate with the Spanish, but was first coined at Joachimsthal, a mining town in Bohemia.



DRAWING ROOM.—LOUIS XV.

## MISCELLANEOUS.

### FASTEAST ATLANTIC OCEAN PASSAGES.

<i>Steamer.</i>	<i>Line.</i>	<i>Date.</i>	<i>D.</i>	<i>H.</i>	<i>M.</i>
Queenstown to New York.....	Etruria.	Cunard.	August, 1885.	6	5
New York to Queenstown.....	Etruria.	Cunard.	September, 1885.	6	7
Southampton to New York.....	Aller.	North German.	Aug.-Sept., 1886.	7	16
New York to Southampton.....	Trave.	North German.	August, 1886.	7	14
Havre to New York.....	La Bourgogne.	French.	June, 1886.	7	18
New York to Havre.....	La Champagne.	French.	August, 1886.	7	12

Approximate distances: Sandy Hook (New York) to Queenstown, 2,800 miles; Southampton, 8,100 miles; Havre, 8,150 miles.



THE YOUNG MOTHER.

### ORGANIZATION OF THE ARMY.

The army of the United States, on December 1, 1886, consisted of the following forces, in officers and men:

	<i>Officers.</i>	<i>Enlisted Men.</i>	<i>Aggregate.</i>
Ten cavalry regiments.....	411	6,942	7,363
Five artillery regiments.....	272	2,473	3,809
Twenty-five infantry regiments.....	836	10,721	11,304
Engineer battalion, recruiting parties, ordnance department, hospital service, Indian scouts, West Point, Signal detachment, and general service.....	583	3,810	4,082
Total.....	2,102	23,956	26,058

# F. B. Wells, DRUGGIST AND CHEMIST,

Graduate of the New York College of Pharmacy.

With a large variety of remedial agents constantly on hand, with a well-appointed laboratory for manufacturing fine preparations, and having had long experience in the largest dispensing store in America, I am prepared to meet all demands that may be made upon me as a manufacturing and dispensing pharmacist. My stock of Drugs, Medicines and Chemicals is perfectly reliable as I critically examine and test each lot when purchased, and I exercise good judgment to buy only in such quantities as will insure my stock to be always in reliable condition. All my Oils, Extracts, Tinctures, Essences, Elixirs and other pharmaceutical preparations are made of the best and will be found up to the standard.

A large variety of Dye Stuffs, Patent Medicines, Perfumes, Brushes, Combs, Sponges, Toilet and Fancy Articles, Trusses, Supporters, Cigars, Confectionery, Pure Wines and Liquors for medicinal purposes: all of the best quality and at reasonable prices.

Orders by mail solicited and filled with accuracy and dispatch. I employ only experienced help.

F. B. WELLS, Ph. G.,

Arms' New Block, - - - - GREENFIELD, MASS.

## E. A. Hall & Co.,

(SUCCESSORS TO FIELD & HALL,)

## JOB PRINTERS & STATIONERS.

Letter Heads, Bill Heads, Statements, Memorandums, Posters, Auction Bills, Dodgers, Circulars, Cards, Wedding Cards, Envelopes, Invitations, Orders of Dances, Programmes, Shipping Tags, Labels, Pamphlets, Tags, and all work of a well-equipped office done in a tasteful and satisfactory manner.

## BLANK BOOKS AND STATIONERY.

A good line of Blank Books of standard makes, and special orders filled at short notice. Writing Paper and Envelopes of every kind and size, News and Book Papers, Colored and Manila Paper, Card Board, Twines, Writing Inks, Pens and Pencils, and a large variety of articles not enumerated.

A Complete Stock of Legal Blanks.

Entrance, Gazette Office, Bank Row, - GREENFIELD.

# Misses A. C. & A. E. Bemis.

## MILLINERY GOODS,

Comprising the Latest Novelties in

Piece Goods, Ribbons, Feathers, Laces,  
Ornaments, &c.

Also, Old Ladies' Caps and all seasonable goods.

Orders will receive particular attention.

**No. 104 Main St., Hovey's Block, (up stairs,) Greenfield.**

## J. M. Wells & Co.,

DEALERS IN

## BOOTS, SHOES AND RUBBERS.

A large stock constantly on hand, well adapted to the trade.

WRIGHT & PETERS' FINE HAND-SEWED GOODS, for Ladies wear,  
always in stock. *They are nice goods.*

Also, CHARLES F. QUIGGLE'S HAND WORK, for Gents, which are  
strictly first-class goods in every respect.

All Medium Grade Goods in great variety, at low prices.

**Arms Block, - - - - - GREENFIELD, MASS.**

## Anson Withey,

MANUFACTURER OF FIRST-CLASS

## CARRIAGES, WAGONS, AND SLEIGHS.

In addition to my own stock, I have a full line of

### Sale Carriages and Sleighs,

including the work of the New Haven Carriage Company and other excellent grades.

Blacksmithing, Painting, Trimming and Repairing in all the branches done promptly by experienced workmen.

SHOP AND REPOSITORY,

**School Street, Corner Ames, - - GREENFIELD, MASS.**

# Chas. J. Day,

Wholesale and Retail Dealer in

## ALL KINDS OF COAL.

D. & H. LACKAWANNA ALL-RAIL A SPECIALTY.

 The best stable bedding is PEAT MOSS. Try a bale.

**Office, 137 Main Street, - - - GREENFIELD, MASS.**

## J. L. Lyons.

### FURNITURE AND UNDERTAKING.

PARLOR, CHAMBER, DINING, AND KITCHEN.

Upholstering of all kinds. Feather Beds, Pillows and Mattresses Renovated. Complete stock of Caskets of all grades; cloth-covered a specialty. Robes—everything necessary in this department.

 Attend to any calls in neighboring towns, day or night. Telephone.

**Main Street, - - - - - GREENFIELD, MASS.**



## Wyandottes at the Front

WHITE and LACED.

My Laced Wyandottes are better this year than ever before. My best birds are from my best matings. This proves what I have said before that from the best we get the best; therefore the best are the cheapest. I shall breed from no second-class birds the coming season. I do not care to cater for customers who think that \$1.50 or \$2.00 is all that a setting of first-class Wyandottes is worth. I have had a large number of Wyandottes scored, both at shows and in private, by old and experienced judges, for the purpose of becoming thoroughly acquainted with the points of this breed. Knowledge thus acquired enables me to mate my birds properly. My White Wyandottes have no Leghorn blood, as many of this new breed have. They are my own strain, sported directly from my Laced birds in my own pens and in the pens of one of my customers. From last year's sports, chicks came pure white. They have small combs, red lobes, beautiful heads and plumage, clean yellow legs and beaks, and the true Wyandotte shape. I have arranged to have my birds raised on farms next season. Will sell a limited number of Laced Wyandotte eggs in season at \$3.00 per setting; a limited number of White Wyandotte eggs in season at \$4.00.

At Greenfield, Sept. 1887, I. K. Felch, Judge, I took 1st prem. on pair of Laced Fowls, 2d on breeding pen Laced Chicks, 1st on breeding pen White Chicks. In Brattleboro, Oct. 1887, I. K. Felch, Judge, I took 1st prem. on pair Laced Fowls, 1st on breeding pen Laced Chicks, 1st on breeding pen White Chicks, 1st on pair White Chicks.

Look at score of 10 birds raised from my No. 1 and No. 2 pens, scored by Felch, Fall of 1887: Pullets, 91 91 91 92 92 93 94; Cocks, 91 91 9. Do you want to buy Wyandottes from parties who know nothing about mating them?

**A. F. S. LYONS, Greenfield, Mass.**

# T. N. Buddington,

Successor to M. J. BENJAMIN,

DEALER IN

BOOTS, SHOES AND RUBBERS,

No. 80 Main Street, Greenfield, Mass.

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# Emory E. Kilburn,

AMERICAN HOUSE LIVERY.

Livery, Boarding, Feeding and Sales Stable.

Entrance and Office, Davis St., - - - GREENFIELD.

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# Imperial Fire Ins. Co.,

OF LONDON. ESTABLISHED 1803.

January 1, 1887.

Assets.....	\$11,202,458	63
Liabilities.....	3,229,411	08
Capital paid up.....	3,500,000	00
Net surplus over all.....	4,473,047	55

*Losses paid, over..... \$50,000,000 00*

G. H. KAULBACK, Agent,  
Sunborn's Block, - - - GREENFIELD, MASS.

---

# Charles Keith,

DEALER IN

CHOICE FAMILY GROCERIES.

First class goods at bottom prices. Best Haxall and St. Louis Flour.

Best Fair Haven Oysters.

Washington Hall, Main St., - - - GREENFIELD, MASS.

# J. W. Newell & Co.

## BOOKS, STATIONERY, AND FANCY GOODS.

We carry a full line of BLANK BOOKS, MEMORANDUM BLOCKS, and FINE WRITING TABLETS.

WRITING PAPER, 20 cts. per pound. *Not damaged*, but first-class stock.

Fine Stationery a Specialty.

**3 Bank Row, . . . . . GREENFIELD, MASS.**

THE BEST

## Teas and Coffees

A Specialty at my Store.

I buy the best, and those who trade with me will be sure of receiving as good as the market affords at reasonable prices. Try some of the fresh lot now in, at prices a little under the previous rates. A full line of Groceries and Provisions always on hand.

Butter sent to market every week, and prompt returns made.

WM. M. SMEAD,

**Greenfield, Mass.**

## F. B. Whitney,

### CARPENTER AND BUILDER,

Shop, Newton Place, rear of Second Congregational Church.

All work done in a thorough and systematic manner.

Jobbing and repairing will receive prompt attention.

# Western Mortgage Loans.

After an experience of NINE YEARS, during which time I have loaned nearly

ONE-HALF MILLION DOLLARS,

I again assert that, in my opinion, no investment of money has proved so secure and remunerative to the people of this valley as

**FIRST MORTGAGES ON IMPROVED WESTERN FARMS.**

☒ No person has lost one dollar on any loan made by me.

Principal secure. No fluctuations.

Interest payable at my office at from 7 to 8 per cent.

Purchase loans of some one who *knows* what he is selling, and you will not regret it.

**F. M. THOMPSON,  
Greenfield, Mass.**

---

INCORPORATED BY THE STATE OF TEXAS.

*Capital paid in, \$300,000.....Surplus, \$54,000.*

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**GUARANTEED**

REAL ESTATE LOANS AND DEBENTURES

NEGOTIATED BY THE

**Texas Loan Agency,**

OF CORSICANA, TEXAS,

**Netting Investors 7 Per Cent.**

The Texas Loan Agency is highly rated by Bradstreet and R. G. Dun & Co.

☒ For 72-page pamphlet, giving particulars, apply to

**F. M. THOMPSON,  
Agent at Greenfield, Mass.**

# Franklin Mutual Fire Insurance Comp'y,

TAYLOR BLOCK,

58 Main Street, - - - - - GREENFIELD, MASS.

INCORPORATED 1828.

*Never made an Assessment. Pays Dividends on all Expiring Policies.*

JAMES S. GRINNELL, - President.

GORHAM D. WILLIAMS, Secretary.

*The Best Property in the County Insured in this Company.*

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Application for insurance may be made to

#### DIRECTORS:

James S. Grinnell, Greenfield,

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J. H. Sanderson, "

O. R. Maynard, Shelburne Falls,

Lyman G. Barton, "

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# B. H. Newell & Co.,

DEALERS IN

## HARDWARE, IRON, STEEL, NAILS,

Carpenters' and Machinists' Tools, Blacksmiths' and Mill Supplies, Door Trimmings, Door, Chest, Drawer, Trunk and Pad Locks; Shelf Brackets, Copper and Iron Rivets and Burrs, Carriage and Tire Bolts, Crow Bars, Cable, Stake and Halter Chains, Cow Ties, Files, Sheet Brass, Babbitt Metal, Tin, Antimony, Solder, Sheet Lead and Zinc; Steel Traps, Forks, Shovels, Hoes, Haying Tools, Gate Hinges, Strap Hinges,

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## Paints, Oils, and Varnishes,

Strictly Pure White Lead and Zinc, Masury's Railroad Colors, Masury's House and Coach Painters' Colors, Mineral Paints, French Yellow, Venetian Red, Whiting, Paris White, Glue, Chalk, Red Lead, Rosin, Lampblack, Pumace and Rotten Stone, Borax, Window Glass, Putty, Tar, Calcined Plaster, West's Enameling Dressing for Carriage Tops, Brushes, Ready Mixed Paints in small cans, Gold Bronze, Gold Leaf, Winsor and Newton's Tube Colors, Artists' Materials, Murphy's Varnishes, Pure Raw and Boiled Linseed Oils, Japan, Turpentine, Asphaltum, Shellac, Sperm, Lard, Machinery and Lantern Oils and Wheel Grease.

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CEMETERY AND BUILDING WORK,  
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Fine Wheat, Brown, Graham and Rye Bread, of my own make, constantly on hand. Also, Sugar and Ginger Cookies, Jumbles, and Fancy Goods and Cake of all kinds. Oysters, Cold Meats, Sausages, Tea and Coffee served at the shortest notice.

All persons visiting the village will find it for their interest to get their meals of me.

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Use my Old and Reliable Remedies.

HOVEY'S COUGH SYRUP, simple and effective.

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I represent the **Dakota Mortgage Loan Corporation**, whose field is Dakota, Nebraska and Kansas, and whose loans yield 6 or 7 per cent., payable in semi-annual installments. This Company, which is organized under the laws of Massachusetts, and has a paid up capital of \$250,000, prides itself upon doing a safe, conservative business, that cannot be shaken by financial troubles. It engages to take full charge of the interests of its clients, and to keep informed of the condition of the security. I believe there is no better Company to invest through. Investigate it.

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GREENFIELD, MASS.

Office, second door from Post Office, in Mansion House Block.

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*Vice President*, L. J. GUNN.

*Secretary*, C. C. CONANT.

*Treasurer*, A. M. GLEASON.

TRUSTEES:

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Deposits received every week day, in sums from one dollar to one thousand dollars, and interest allowed to accumulate to sixteen hundred dollars, which draws interest.

Dividends are payable January 1 and July 1, and if not withdrawn, are added to the principal, and draw interest the same as the original deposit.

All taxes on deposits are paid by the Bank.

Notice has never been required at any time from those wishing to draw any part or the whole of their deposits, but the Bank reserves the right to do so whenever the interests of the depositors require it.

Money can be drawn on any business day.

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Amount due 3,078 depositors.....	\$1,800,167 20
Guarantee fund.....	30,000 00

DIVIDENDS PAID IN 1887.

No. 35, January 1, 1887.....	\$23,992 06
" 36, July 1, 1887.....	24,523 33
Total.....	\$48,515 39

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 Dimes saved increase to dollars.



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"Yes, mother, I feel so much stronger, too. Why, I can play all the afternoon, and not feel tired. And the medicine is so pleasant to take. Sister always wants a taste when I am taking it."

"Well, it is really a peculiar and remarkable medicine. I have been reading its Phenomenal Record. Every statement is so fair that it carries conviction. In fact, Hood's Sarsaparilla seems to be thoroughly honest and reliable."

"Why, mother, Susie Smith says her mother bought some Sarsaparilla last week, which the man said was just as good as Hood's, but they did not like it, and have thrown it away. Can anybody else make it as good as Hood's?"

"No. As I have told you very often, **HOOD'S SARSAPARILLA IS THE BEST.** It possesses merit peculiar to itself. But

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Of the peculiar medicinal merits of Hood's Sarsaparilla is fully confirmed by the voluntary testimony of thousands who have tried it. Peculiar in the combination, proportion, and preparation of its ingredients, peculiar in the extreme care with which it is put up, Hood's Sarsaparilla accomplishes cures where other preparations entirely fail. Peculiar in the unequalled good name it has made at home, which is a "tower of strength abroad," peculiar in the phenomenal sales it has attained, the most popular and successful spring medicine and blood purifier before the public to-day is

### Hood's Sarsaparilla

"I have taken Hood's Sarsaparilla for dyspepsia, which I have had for the last nine or ten years, suffering terribly. It has now entirely cured me."—Mrs. A. NORTON, Chicoopee, Mass.

N. B. If you have made up your mind to get Hood's Sarsaparilla, do not take any other.

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Sold by druggists. \$1; six for \$5. Prepared by C. I. HOOD & CO., Lowell, Mass.

**100 Doses One Dollar.**

some men make every effort to sell their own in place of Hood's. But I always buy of a regular druggist, on whom I can rely to give me the genuine. I know that Hood's has done us much good, and I will not waste time or money trying any other."

"I must say Hood's Sarsaparilla is the best medicine I ever used. Last spring I had no appetite, and the least work did fatigued me ever so much. I began to take Hood's Sarsaparilla, and I soon felt as if I could do as much in a day as I had formerly done in a week. My appetite is voracious."—Mrs. M. V. BAYARD, Atlantic City, N. J.

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"All I ask of any one is to try a bottle of Hood's Sarsaparilla and see its quick effect. It takes less time and quantity to show its effect than any other preparation I ever heard of. I would not be without it in the house."—Mrs. C. A. M. HUBBARD, North Chili, N. Y.

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